

Mirel-Marinel BIRLAN

Hirsh Index = 32 (Clarivate Analytics)

ORCID: 0000-0003-3495-8535

Brainmap: U-1700-028W-7985



Date personale :

Data nașterii : 1 septembrie 1963, sat Vieru, județul Giurgiu

Adresa : București, str Novaci, nr 2, Bloc S9', Ap 12, sector 5

Email: Mirel.Birlan@astro.ro, Mirel.Birlan@obspm.fr

Telefon: 0033 675059706, 0040 723037509

Incadrare actuală: Astronom, Director al Institutului Astronomic al Academiei Române

Educație și formare :

Abilitare pentru dirijarea de teze de doctorat în astronomie, astrofizică, mecanică cerească, Universitatea Paris VII, Paris, Franța, 2005

Abilitare pentru dirijarea de teze de doctorat în fizică (echivalare în România), 2017

Doctorat în Fizică, specialitatea Optică, spectroscopie, plasmă și laseri, Universitatea din București, România, 1998

Doctorat în Astronomie, Mecanică Cerească și Geodezie, Observatorul din Paris, Franța, 1997

Diploma de licență în Fizică, specialitatea Fizica atmosferei, seismologie, fizica Pamântului, Universitatea din București, Facultatea de Fizică, România, 1986

Bacalaureat în specialitatea Matematică și Fizică, la Colegiul Național « Ion Maiorescu », orașul Giurgiu, România, 1981

Domenii de expertiză:

- Observații directe și în mod teledetecție pentru studiile proprietăților fizice ale obiectelor Sistemului Solar ;
- Spectroscopie în domeniul vizibil și infrarosu apropiat pentru obiectele sistemului solar fără atmosferă ;
- Modelarea proprietăților fizice și dinamice ale asteroizilor și ale obiectelor artificiale din spațiu;
- Cercetare și inovare legate de tehnicile inovative folosite în astronomia observațională

Experiența profesională:

- Institutul Astronomic al Academiei Române (2021-prezent)
- CNRS, IMCCE, Observatorul din Paris, Paris, Franța (inginer în calcul științific 2000 – 2015 ; cercetător în astronomie 2015-2021)
- Institutul Astronomic al Academiei Române (cercetător asociat 2013-2021);
- Post-doctorand al Agenției Spațiale Europene (studiul obiectelor de explorat pentru misiunea spațială Rosetta): 1999-2000
- Universitatea Cergy-Pontoise, Franța (profesor asociat 2000-2013)

- Institutul Astronomic al Academiei Române (astronom: 1995-1999, astronom asistent: 1991-1995, astronom asociat: 2013-2021)
- Universitatea din București, Facultatea de Fizică (cursuri de astronomie și planetologie la nivel masteral și doctoral): 2018-prezent

Cursuri predate în perioade de sejour scurt la Massachusetts Institute of Technology-USA în Octombrie 2006 și Mai 2013, Universitatea București România (în 2001-2006, 2009, 2011, 2017-prezent) și Universitatea Akdeniz, în Antalya, Turcia (în 2014)

Premii și distincții:

Emblema de onoare a Comunicațiilor și Informaticii decernată de Comandamentul Comunicațiilor și Informaticii din cadrul Ministerului Apărării Naționale

Cetățean de onoare al Județului Giurgiu ; diplomă acordată de Consiliul Județean Giurgiu la 20 august 2024 ;

Premiul de excelență în cercetare « Ad-Astra » ediția 2023 pentru Științele planetare și științele spațiale ;

Diploma de excelență, Sommet des affaires Franco-Roumains, Paris, 30 septembrie 2022 ;

Medalia "Merite deosebite în cercetarea spațială ", cu ocazia aniversării a 20 de ani de la înființarea Agenției Spațiale Române ;

Medalia "Merite pentru rezultate importante în astronomie", cu ocazia centenarului Observatorului din București, 2008 ;

Asteroidul (10034) Birlan îmi poartă numele în catalogul Uniunii Astronomice Internaționale pentru asteroizi, din anul 2001.

Incadrare de teze de doctorat în astronomie și fizică

- Catalina POP - *Arhitectura unui sistem optic distribuit de supraveghere în timp real a situației spațiale* Universitatea din București (debut în 2025)
- Cristian OMAT – *Megaconstelațiile de sateliți : riscurile operaționale și impactul asupra observațiilor astronomice de la sol*, Universitatea din București (debut în 2022)
- Mirela Madalina TRELIA – *Rotational properties of artificial objects*, Universitatea din București (debut în 2021)
- Simon ANGHEL - «*Photometry in allsky images: application to meteors*», Universitatea din București, susținută în Aprilie 2022;
- Adrian SONKA - «*Long period asteroids physics and spectral characteristics*», Universitatea din București, susținută în septembrie 2021;
- Simon JEANNE - «*Identification des corps parents des météorites avec le réseau FRIPON*» în cotutela cu François Colas, susținută în Martie 2020, la Observatorul din Paris;
- Bogdan DUMITRU «*Asteroids parent bodies of meteor showers* » PhD thesis, cotutela între Observatorul din Paris și Universitatea din București, susținută în septembrie 2018
- Myriam PAJUELO «*Caractérisation des astéroïdes binaires par photométrie et occultations stellaires* » Observatorul din Paris, susținută în septembrie 2017
- Marcel POPESCU «*Techniques for asteroid spectroscopy* », Universitatea "Politehnica" București, susținută în octombrie 2012
- Alin NEDELCU «*Modélisation dynamique et spectroscopique des astéroïdes; Applications aux géocroiseurs et aux cibles de missions spatiales* » susținută la Observatorul din Paris, septembrie 2010
- Emmanuel MARCQ PhD thesis, 2007 (25% din încadrare)

- Pierre VERNAZZA, PhD thesis, 2007 (25% din încadrare)

Afilieri la academii, asociații și comitete profesionale

Reprezentant al României la Comitetul de Programme Spațiale (SPC) al Agenției Spațiale Europene (2022-2024, 2025 - prezent)

Consilier în Delegația României la Comitetul de Programme Spațiale al Agenției Spațiale Europene (SPC) în perioada 2019-2022 ;

Membru expert al Delegației României la UN-COPUOS, reprezentant în grupul de lucru SMPAG și IAWN (2015-2023)

Reprezentant al României în cadrul Uniunii Astronomice Internaționale (2015-2023)

Reprezentant al României în cadrul Societății Astronomice Europene (2015-2023)

Președinte al Comitetului Național Român de Astronomie (2015-2023)

Membru al Academiei Internaționale de Astronautică (membru corespondent din anul 2017, membru cu drepturi depline din anul 2021)

Reprezentant al României în Steering Committee al misiunii spațiale Euclid al Agenției Spațiale Europene (din anul 2021)

Vicepreședinte al Comisiei nr 4 Tehnologia informațiilor și a comunicațiilor, spațiu și securitate în Colegiul Consultativ pentru Cercetare-Dezvoltare și Inovare (CCCDI, 2025 - prezent)

Membru al Comitetului Național Român pentru Atestarea Titlurilor, Diplomelor și Certificatelor Universitare, Panelul de științe exacte (CNATDCU, 2011-2012 și 2020-2024)

Membru al Comitetului de inițiativa francez al Comitetului Național Francez al Astronomilor pentru prepararea Anului Astronomic Internațional 2009 (2007-2009)

Secretar general adjunct al Comitetului Național Francez al Astronomilor (2004-2007)

Secretar al Comitetului Național Român de Educație prin Astronomie (1997-1998)

Membru al American Astronomical Society Division for Planetary Sciences

Membru în Comisiile 16, 17, 4 ale Uniunii Astronomice Internaționale

Editor șef al revistei Romanian Astronomical Journal (din 2021) și secretar științific al revistei (2017-2021) ; din anul 2023 revista este cotate în baza de date Clarivate Analytics cu IF=0,8

Membru al Comitetului Editorial al volumului dedicat Efemeridei astronomice naționale a Franței, *Connaissance des Temps*, responsabil de ediție (2005-2021)

Membru al Comitetului Editorial al *Anuarului Astronomic*, România, 1997

Articole publicate în reviste științifice cu referenți (158 articole)

1. Trelia, M. Nedelcu, D.A., **Birlan, M.** - *APSiS: Automated Photometric Survey of Inactive Satellites for rotational dynamics and lightcurve characterization*, **Acta Astronautica**, Volume 242, pp. 85-106, 2026
2. Omat, C., **Birlan, M.**, Nedelcu, D.A., Anghel, S. - *Deep learning approach for automated detection of space objects in astronomical imaging* **Astronomy and Computing**, Volume 55, id.101081, 2026
3. Devogèle, M., Hainaut, O.R., Micheli, M., ..., **Birlan, M.**, ... et al. - *Rapid-Response Characterization of Near-Earth Asteroid 2024 YR4 During a Torino Scale 3 Alert*, **The Journal of the Astronautical Sciences**, Volume 73, Issue 2, id.31, 2026

4. Sonka, A., Nedelcu, A., **Birlan, M.**, Trelia, M. - *Lightcurve of Comet C/2024 M1 (ATLAS)* **Bulletin of the Minor Planets Section of the Association of Lunar and Planetary Observers**, Vol. 52, No. 4, pp. 349-350, 2025
5. **Birlan, M.**, Besliu-Ionescu, D., Dumitru, L., Marin, S., Pop, A. - *Romanian Astronomical Journal celebrates 35 years of continuous activity*, **Romanian Astronomical Journal**, Vol. 35, No. 3, pp. 227-232, 2025
6. Andronache, I., Ahammer, H., **Birlan, M.**, Marin, S. - *Using Fractal Analysis in Astronomy: Open and Globular Stellar Clusters as a Case Study*, **Romanian Astronomical Journal**, Vol. 35, No. 3, pp. 155-174, 2025
7. Egal, A., Vida, D., Colas, F. ...**Birlan, M.**... et al - *Catastrophic disruption of asteroid 2023 CX1 and implications for planetary defence*, **Nature Astronomy**, September 2025
<https://doi.org/10.1038/s41550-025-02659-8>
8. Sonka, A., Nedelcu, A., **Birlan, M.**, Trelia, M. – *Lightcurves of Near-Earth Asteroids 2024 RJ2, 2024 MK, (363027) 1998 ST27, 2024 PF6, AND (163692) 2003 CY18* - **Romanian Astronomical Journal**, vol 35 no 1-2, 2025
9. Omat, C., **Birlan, M.**, Nedelcu, A., Turcu, V., Deleflie, F., Botezatu, U. – *Re-entry survivability analysis of ERS-2 Satellite* - **Romanian Astronomical Journal**, vol 35 no 1-2, 2025
10. **Birlan, M.**; Barucci, M.A.; Belskaya, I.; Fulchignoni, M.; Hromakina, T.; Sonka, A.; Nedelcu, A., Colas, F.; et al - *NEOROCKS color survey: Final results*, **Astronomy & Astrophysics**, Volume 689, A334, 12pp, <https://doi.org/10.1051/0004-6361/202450495>, 2024.
11. Fornasier, S.; Dotto, E.; Panuzzo, P.; Delbo, M.; Belskaya, I.; Krugly, Y.; Inasaridze, R.; Barucci, M. A.; Perna, D.; Brucato, J.; **Birlan, M.** - *Size, albedo, and rotational period of the Hayabusa2# target (98943) 2001 CC21*, **Astronomy & Astrophysics**, Volume 688, id.L7, 7 pp, 2024
12. Reddy, V., Kelley, M. S.; Benner, L., Dotson, J. Erasmus, N., Farnocchia, D., Linder, T., Masiero, J. R., Thomas, C., Bauer, J., Alarcon, M. R., Bacci, P., Bamberger, D., Battle, A., Benkhaldoun, Z., Betti, G., **Birlan, M.**, Brozovic, M., Burt, B., Cantillo, D. C.; Chandra, S., Chomette, G. et al. - *2023 DZ2 Planetary Defense Campaign*, **The Planetary Science Journal**, Vol 5, Issue 6, id.141, 2024
13. Marin, S., **Birlan, M.**, Besliu-Ionescu, D., Nedelcu, D. A., Szucs-Csillik, I., Pop, A., Turcu, V., *Expanded Terminological List in Astronomy and Space Sciences from English to Romanian*, **Romanian Astronomical Journal**, vol 33, n 3, 2023
14. Sonka, A., **Birlan, M.**, Nedelcu, A., Trelia, M. – *Lightcurves of PHAs 2021 HC3, 2001 EC, (7482) 1994 PC1, and (99942) Apophis*, **Romanian Astronomical Journal**, vol 33, n 1-2, 2023
15. Carry, B., Descamps, P., Ferrais, M., ..., **Birlan, M.**, Colas, F., ... - *Close-to-fission dumbbell Jupiter-Trojan (17365) Thymbraeus*, **Astronomy & Astrophysics**, Volume 680, id.A21, 6 pp. (2023)
16. Hromakina, T., **Birlan, M.**, Barucci, A., Fulchignoni, M., et al – *NEOROCKS Project: surface properties of small near-Earth Asteroids*, **Monthly Notices of the Royal Astronomical Society**, Vol 520, Issue 2, pp. 3143-3150, 2023
17. Marsset, M., Broz, M., Vermesch, J., Rambaux, N., ..., **Birlan, M.**, – *The equilibrium shape of (65) Cybele: primordial relic of a large impact?*, **Astronomy & Astrophysics**, Volume 670, id.A52, 18 pp. (2023)
18. **Birlan, M.**, Hromakina, T., Barucci, A., Fulchignoni, M., Sonka, A., Omat, C., Colas, F. Belskaya, I., Fornasier, S., Dotto, E., Anghel, S., NEOROCKS team – *Lightcurves and astrometry results of NEOROCKS Asteroid Color Survey*, **Romanian Astronomical Journal**, Vol. 32, No. 2, pp. 127-139, 2022
19. Anghel, S., Nedelcu, A., **Birlan, M.**, Boaca, I. - *Single-station meteor detection filtering using machine learning on MOROI data* - **Monthly Notices of the Royal Astronomical Society**, Vol 518, Issue 2, pp. 2810-2824, 2023
20. Sonka, A., Nedelcu, A., **Birlan, M.** - *Rotational Period of Small NEA 2022 KK5*, **Bulletin of the Minor Planets Section of the Association of Lunar and Planetary Observers**, Vol. 49, No. 4, pp. 258-259, 2022;
21. Boaca, I., Gritsevich, M., **Birlan, M.**, Nedelcu, A., et al - *Characterization of the Fireballs Detected by All-sky Cameras in Romania* - **The Astrophysical Journal**, Volume 936, Issue 2, id.150, 12 pp., 2022
22. Farnocchia, D; Reddy, V; Bauer, J. M.; Warner, E. M.; Micheli, M; ... **Birlan, M**; Bolin, B.T.; Brucker, ... - *International Asteroid Warning Network Timing Campaign: 2019 XS*, **The Planetary Science Journal**, Volume 3, Issue 7, id.156, 2022.

23. Vass, G., **Birlan, M.** - *The Use of Conceptual Maps in Astronomy*, **Romanian Astronomical Journal**, Vol. 32, No. 1, pp. 75-81, 2022
24. Boaca, I., Gritsevich, M., **Birlan, M.**, Nedelcu, A., Boaca, T., Colas, F., Malgoyre, A., Zanda, B., Vernazza, P. - *Characterization of the Fireballs Detected by All-sky Cameras in Romania*, **Astrophysical J.**, Volume 936, issue 2, id 150, 2022
25. Ferrais, M.; Jorda, L.; Vernazza, P.; Carry, B.;... **Birlan, M.**; Podlowska-Gaca, E.;... *M-type (22) Kalliope: A tiny Mercury*, **Astronomy & Astrophysics**, Volume 662, id. A71, 18 pp., 2022
26. T. Hromakina, M. **Birlan, M.** A. Barucci, M. Fulchignoni, F. Colas, S. Fornasier, F. Merlin, A. Sonka, E. Petrescu, et al - *Photometric survey of 55 near-earth asteroids*, **Astronomy & Astrophysics** volume 656, id.A89, 2021
27. Anghel, S.; Drolshagen, E.; Ott, T.; **Birlan, M.**, Colas, F.; Nedelcu, D. A.; Koschny, D.; Zanda, B.; Bouley, S.; Jeanne, S.; Malgoyre, A.; Blanpain, C.; Gattacceca, J.; Jorda, L.; Lecubin, J.; Rault, J. L.; Vaubaillon, J.; Vernazza, P.; Hueso, R.; Peña-Asensio, E.; Ribas, S. J.; Rimola, A.; Sánchez-Lavega, A.; Tapia, M.; Trigo-Rodríguez, J. M.; Cauhape, P.; Davadan, C.; Dupouy, P.; Herpin, M.; Rousseu, D.; Tregon, B. - *Energy signature of ton TNT-class impacts: analysis of the 2018 December 22 fireball over Western Pyrenees*, **Monthly Notices of the Royal Astronomical Society**, Volume 508, Issue 4, pp.5716-5733, 2021
28. Vernazza, P.; Ferrais, M.; Jorda, L.; Hanuš, J.; Carry, B.; Marsset, M.; Brož, M.; Fetick, R.; Viikinkoski, M.; Marchis, F.; Vachier, F.; Drouard, A.; Fusco, T.; **Birlan, M.**; Podlowska-Gaca, E.; Rambaux, N.; Neveu, M.; Bartczak, P.; et al (64 authors) - *VLT/SPHERE imaging survey of the largest main-belt asteroids: Final results and synthesis*, **Astronomy & Astrophysics**, Volume 654, id.A56, 48 pp., 2021
29. Sonka, A., **Birlan, M.**, Nedelcu, D. A., Badescu, O., Henriksen, A.I.- *Photometric observations of Low Delta v asteroids*, **Romanian Astronomical Journal**, Vol. 31, No. 3, pp. 293-302, 2021
30. Marchis, F., Jorda, L., Vernazza, P., Brož, M., Hanuš, J., Ferrais, M., Vachier, F., Rambaux, N.; Marsset, M., Viikinkoski, M.; Jehin, E.; Benseguane, S., Podlowska-Gaca, E., Carry, B., Drouard, A., Fauvaud, S., **Birlan, M.**, Berthier, J., Bartczak, P., Dumas, C.; et al - *(216) Kleopatra, a low density critically rotating M-type asteroid* - **Astronomy & Astrophysics**, Volume 653, id.A57, 25pp, 2021.
31. Brož, M.; Marchis, F.; Jorda, L.; Hanuš, J.; Vernazza, P.; Ferrais, M.; Vachier, F.; Rambaux, N.; Marsset, M.; Viikinkoski, M.; Jehin, E.; Benseguane, S.; Podlowska-Gaca, E.; Carry, B.; Drouard, A.; Fauvaud, S.; **Birlan, M.**; Berthier, J.; Bartczak, P.; Dumas, C. et al - *An advanced multipole model for (216) Kleopatra triple system* - **Astronomy & Astrophysics**, Volume 653, id.A56, 9pp., 2021
32. Anghel, S., Szucs-Csillik, I., Nedelcu, D. A., Boaca, I., **Birlan, M.** - *Meteoroid's orbit determination*, **Romanian Astronomical Journal**, Vol. 31, No. 2, pp. 153-170, 2021
33. Boaca, I., Nedelcu, A., **Birlan, M.**, Boaca, T., Anghel, S.- *Mathematical algorithm for the dark-flight trajectory of a meteoroid*, **Romanian Astronomical Journal**, Vol. 31, No. 2, pp. 171-182, 2021
34. Drolshagen, E.; Ott, T.; Koschny, D.; Drolshagen, G.; Vaubaillon, J.; Colas, F.; Zanda, B.; Bouley, S.; Jeanne, S.; Malgoyre, A.; **Birlan, M.**; Vernazza, P.; Gardiol, D.; Nedelcu, D. A.; Rowe, J.; Forcier, M.; Trigo-Rodríguez, J. M.; Peña-Asensio, E.; et al - *Luminous efficiency of meteors derived from ablation model after assessment of its range of validity* - **Astronomy & Astrophysics**, Volume 652, id.A84, 29pp, 2021.
35. Drolshagen, E.; Ott, T.; Koschny, D.; Drolshagen, G.; Vaubaillon, J.; Colas, F.; Zanda, B.; Bouley, S.; Jeanne, S.; Malgoyre, A.; **Birlan, M.**; Vernazza, P.; Gardiol, D.; Nedelcu, D. A.; Rowe, J.; Forcier, M.; Trigo-Rodríguez, J. M.; Peña-Asensio, E.; et al- *Luminous efficiency based on FRIPON meteors and limitations of ablation models* - **Astronomy & Astrophysics**, Volume 650, id.A159, 17pp, 2021.
36. Carry, B.; Vernazza, P.; Vachier, F.; Neveu, M.; Berthier, J.; Hanuš, J.; Ferrais, M.; Jorda, L.; Marsset, M.; Viikinkoski, M.; Bartczak, P.; Behrend, R.; Benkhaldoun, Z.; **Birlan, M.**; Castillo-Rogez, J.; Cipriani, F.; Colas, F.; et al- *Evidence for differentiation of the most primitive small bodies* **Astronomy & Astrophysics**, Volume 650, id. A129, 15pp (2021).
37. Sonka, A.B.; Turcu, V.; Nedelcu, A.; **Birlan, M.**; Moldovan, D. - *Fast Rotator Minor Planet 2020 UA From Cluj and Berthelot Observatory* - **Minor Planet Bulletin** (ISSN 1052-8091). Vol. 48, No. 2, pp. 100-101 (2021)
38. Gardiol, D.; Barghini, D.; Buzzoni, A.; Carbognani, A.; Di Carlo, M.; Di Martino, M.; Knapic, C.; Londero, E.; Pratesi, G.; Rasetti, S.; Riva, W.; Salerno, R.; Zorba, S.; Colas, F.; Zanda, B.; Bouley, S.; Jeanne, S.;...**Birlan, M.** *Cavezzo, the first Italian meteorite recovered by the PRISMA fireball*

- network. *Orbit, trajectory, and strewn-field* **Monthly Notices of the Royal Astronomical Society**, Volume **501**, Issue 1, pp.1215-1227
39. **Birlan, M.**; Sonka, A.; Badescu, O. and 10 more authors- *Berthelot, the new astronomical station in Romania – Romanian Astronomical Journal*, Vol. **31**, No. 1, p. 41-56
 40. **Birlan, M.**, Colas, F., Cochard, F., Darson, D., Carry, B.,..., Morfin, P. - *First light of SOVAG, a spectrograph for visible and near-infrared observation of asteroids*, **Experimental Astronomy** vol **51**, issue 1, 2021.
 41. Dumitrache, C.; **Birlan, M.**; Popescu, N.A., Ionescu-Besliu, D. – *RoAJ in 30 years of existence Romanian Astronomical Journal*, Vol. **31**, No. 1, p. 3-8
 42. F. Colas, B. Zanda, S. Bouley, S. Jeanne, A. Malygoyre, **M. Birlan**, C. Blanpain, J. Gattacceca, L. Jorda, J. Lecubin et al. (385 more) - *FRIPON: a worldwide network to track incoming meteoroids Astronomy & Astrophysics*, **644**, A53, 2020
 43. Sonka, A., **Birlan, M.**, Nedelcu, A. – *Monitoring the fragmentation of C/2019 Y4 (ATLAS)*, **Rom Astron. J.**, vol **30**, n.2, 2020.
 44. Yang, B.; Hanus, J.; Carry, B.; Vernazza, P., ... **Birlan, M.**; Benkhaldoun, Z., ... : *Binary asteroid (31) Euphrosyne: Ice-rich and nearly spherical*, **Astronomy & Astrophysics**, Volume **641**, Id.A80 2020
 45. Ferrais, M.; Vernazza, P.; Jorda, L.; Rambaux, N.,... **Birlan, M.**; Podlowska-Gaca, E.,.... *Asteroid - (16) Psyche's primordial shape: A possible Jacobi ellipsoid*, **Astronomy & Astrophysics**, Volume **638**, id.L15, 9 pp., 2020
 46. Carbognani, Albino; Barghini, D.; Gardiol, D.; Martino, M. Di; Valsecchi, G. B.; Trivero, P.; Buzzoni, A.; Rasetti, S.; Selvestrel, D.; Knapic, C.; ... **Birlan, M.**, - *A case study of the May 30, 2017, Italian fireball*, **The European Physical Journal Plus**, Vol **135**, Iss 2, article id.255, 2020
 47. Hanuš, J.; Vernazza, P.; Viikinkoski, M.; Ferrais, M.; Rambaux, N.; Podlowska-Gaca, E.; Drouard, A.; Jorda, L.; Jehin, E.; Carry, B.,... **Birlan, M.** - *(704) Interamnia: a transitional object between a dwarf planet and a typical irregular-shaped minor body - Astronomy & Astrophysics*, Volume **633**, id.A65, 17 pp., 2020.
 48. Marsset, M., Broz, M., Vernazza, P., ... **Birlan, M.**, Marchis, F., *The violent collisional history of aqueous asteroid (2) Pallas*, **Nature Astronomy**, 20 February 2020, doi:10.1038/s41550-019-1007-5
 49. Vernazza, P., Jorda, L., Sevecek, P.,, **Birlan, M.**, Podlowska-Gaca, E.,- *A basin free spherical shape as an outcome of a giant impact on asteroid Hygiea*, **Nature Astronomy**, vol **4**, p 136-141, 2020.
 50. Hanus, J., Vernazza, P., Viikinkoski, M., ..., Birlan, M., *(704) Interamnia: a transitional object between a dwarf planet and a typical irregular-shaped minor body*, **Astronomy & Astrophysics**, vol **633**, id.A65, 2020
 51. Marsset, M., DeMeo, F., Sonka, A., **Birlan, M.**, Polishook, D., - *Active asteroid (6478) Gault : a blue Q-type surface below the dust?* **Astrophys. J. Lett.**, vol **882**, 1, L2, 2019
 52. Jeanne, S., Colas, F., Zanda, B., **Birlan, M.**, Vaubaillon, J., Bouley, S., - *Calibration of fish-eye lens and error estimation on fireball trajectories: Application to the FRIPON network*, **Astronomy & Astrophysics**, vol **627**, id.A78, 2019
 53. Binzel, R.P., DeMeo, F.E., Turtelboom, E.V., Bus, S.J., Tokunaga, A., Burbine, T.H., Lantz, C., Polishook, D.,... **Birlan, M.**, ...- *Compositional distributions and evolutionary processes for the near-Earth object population: Results from the MIT-Hawaii Near-Earth Object Spectroscopic Survey (MITHNEOS)*, **Icarus** vol **324**, p. 41-76, 2019.
 54. Hanus, J., Marsset, M., Vernazza, P., Viikinkoski, M., Drouard, A., Broz, M., ... **Birlan, M.**, ...- *The shape of (7) Iris as evidence of an ancient large impact?*, **Astronomy & Astrophysics**, vol **624**, id.A121, 2019
 55. Carry, B., Vachier, F., Berthier, J., Marsset, M., Vernazza, P., Grice, J., Merline, W.J., Lagadec, E., Fienga, A.,... **Birlan, M.**, ... - *Homogeneous internal structure of CM-like asteroid (41) Daphne*, **Astronomy & Astrophysics**, vol **623**, id.A132, 2019
 56. Fétick, R.J.L., Jorda, L., Vernazza, P., Marsset, M., Drouard, A., Fusco, T., Carry, B., Marchis, F., Hanuš, J.,... **Birlan, M.**, ... - *Closing the gap between Earth-based and interplanetary mission observations: Vesta seen by VLT/SPHERE*, **Astronomy & Astrophysics**, vol **623**, id.A6, 2019
 57. **Birlan, M.**, Blaga, C., Sucs-Zsillik, I., Besliu-Ionescu, Pop, A., D., Nedelcu, A., Badescu, O., Marin, S. – *Celebrate IAU100 in Romania*, **Rom Astron. J.**, vol **29**, n.3, pp 246-252, 2019;

58. Sonka A., **Birlan, M.**, Vachier, F., Berthier, J., Klotz, A., Thierry, P., Peyrot, A., Teng, J-P., - *The (155140) 2005 UD lightcurve and rotational period from simultaneous observations*, **Rom Astron. J.**, vol **29**, n.3, pp 191-200, 2019;
59. Anghel, S., **Birlan, M.**, Nedelcu, A., Boaca, I., - *Photometric calibration of MOROI all-sky cameras: introduction and first results*, **Rom Astron. J.**, vol **29**, n.2, pp 149-159, 2019;
60. **Birlan, M.**, Sonka A., Nedelcu A., Balan M., Anghel, S., Pandeale, C., Trusculescu, M., Dragasanu, C., Plesca, V., Gandescu, C.H., Banica C.K., Georgescu T. - *Telescope calibration for mobile platforms: first results*, **Rom Astron. J.**, vol **29**, n.1, pp 23-33, 2019;
61. Dumitru B., **Birlan M.**, Nedelcu D. - *Asteroid parent bodies of meteor showers: an update*, **Rom Astron. J.**, vol **28**, n.2, pp 167-176, 2018;
62. **Birlan, M.**, Plesca, V., Gandescu, C.H., Nedelcu A., Balan M., Banica C.K., Pandeale C, Sonka A., Georgescu T. - *Observational asset for Near-Earth Objects, artificial satellites, and space debris: an assessment of concept*, **Rom Astron. J.**, vol **28**, n.2, pp 69-80, 2018;
63. Sonka, A., Gornea A.I., **Birlan M.** - *Photometric monitoring of PHA (3122) Florence*, **Rom Astron. J.**, vol **28**, n.1, pp 81-88, 2018,
64. Gornea A.I., Sonka A., **Birlan M.**, Anghel S. - *Photometric Observations of Near-Earth Asteroid 2018 GE3*, **Minor Planet Bull**, vol **45**, no 4, pp 315-316, 2018.
65. Viikinkoski, M., Vernazza P., Hanus J., Le Coroller H., Tazhenova K., Carry B., Marsset M., Drouard A., ... **Birlan M.**, ... - *(16) Psyche: A mesosiderite-like asteroid?*, **Astronomy & Astrophysics** vol 619, id. L3, 10pp, 2018.
66. Vernazza P., Broz M., Drouard A. Hanus J., Viikinkoski, M., Marsset M., ... **Birlan M.**, ...- *The impact crater at the origin of the Julia family detected with VLT/SPHERE?*- **Astronomy & Astrophysics** vol 618, id. A154, 16pp, 2018.
67. Dumitru B., **Birlan M.**, Sonka A., Colas F., Nedelcu A. - *Photometry of asteroids (5141), (43032), (85953), (259221), and (363599) observed at Pic du Midi Observatory*, **Astron. Nach**, vol **339**, issue 2-3, 2018.
68. Pajuelo M., **Birlan M.**, Carry B., DeMeo F., Binzel R., Berthier J. - *Spectral properties of binary asteroids*, **Monthly Notices**, vol **477**, issue 4, 2018;
69. Drouard A., Vernazza P., Loehle S., Gattacceca J., Vaubaillon J., Zanda B., **Birlan M.**, Bouley S., Colas F., Eberhart M., Hermann T., Jorda L., Marmo C., Meindl A., Oefele R., Zamkotsian F. , Zander F.: - *Probing the use of spectroscopy to determine the meteoritic analogues of meteors*, **Astronomy & Astrophysics**, vol **613**, A54, 2018
70. **Birlan M.**, Nedelcu A.- *Reflectance spectrum of (1154) Astronomia*, **Rom Astron. J.**, vol 28, n.1, pp 33-39, 2018;
71. Nedelcu A., **Birlan M.**, Turcu, V., Boaca I., Badescu O., Gornea A., Sonka A., Blagoi, O., Danescu C., Paraschiv, P. - *Meteorite orbits reconstruction by optical imaging (MOROI) network*, **Rom Astron. J.**, vol 28, n.1, pp 57-65, 2018;
72. Sonka A. Gornea A. Anghel S., **Birlan M.** - *Photometric observations of Near Earth Asteroid 2012 TC3*, **Rom Astron. J.**, vol 27, n.3, pp 223-231, 2017;
73. Dumitru B., **Birlan M.**, Popescu M., Nedelcu D. - *Association between meteor showers and asteroids using multivariate criteria*, **Astronomy & Astrophysics**, vol **607**, A5, 2017
74. **Birlan M.**, Colas F., Cochard F., Carry B., Vernazza P., Fornasier S., Perna D. - *New concept of spectrograph for Near-Earth Asteroids Observations*, **Rom Astron. J.**, vol 27, n.2, pp 83-90, 2017;.
75. Anghel S., **Birlan M.** - *Data ingestion methods and taxonomic results using M4AST*, **Rom Astron. J.**, vol 27, n.1, pp 3-12, 2017;
76. **Birlan M.**, A. Sonka, R. Cornea, C. Danescu, R. Gherase, L. Hudin, M. Popescu, et al - *Romania observed from Romania: an educational program for observing asteroid (7698) Romania during its opposition in 2015*, **Rom Astron. J.**, vol **26**, n 2, pp 169-179, 2016; .
77. **Birlan M.** - *Mineralogy of asteroid (10484) Hecht*, **Rom Astron. J.**, vol **26**, n 2, pp 137-145, 2016;
78. Vernazza P., Marsset M., Beck P., Binzel R.P., **Birlan M.**, Cloutis E.A., DeMeo F.E., Dumas C., Hiroi T. - *Compositional Homogeneity of CM Parent Bodies*, **Astron. J.** vol **152**, issue 3, id.54, 2016;
79. Arlot J.-E., **Birlan M.**, Robert V. - *The project Naroo (New astrometric reduction of old observations)* **Rom Astron. J.**, vol **26**, n 1, 2016;
80. **Birlan M.**, Nedelcu A., Sonka A., Popescu M., Dumitru B. - *Observations for secure and recovery Near-Earth Asteroids*, **Rom Astron. J.**, vol **26**, n 1, 2016;

81. Marsset M., Vernazza P., **Birlan M.**, DeMeo F., Binzel R.P., Dumas C., Milli J., Popescu M. - *Compositional characterisation of the Themis family*, **Astronomy & Astrophysics** vol **586**, id.A15, 9pp, 2016
82. **Birlan M.**, Popescu M., Nedelcu D. A., Turcu V., Pop A., Dumitru B., Stevance F., Vaduvescu O., Moldovan D., Rocher, P., Sonka A., Mircea, L.- *Characterization of (357439) 2004 BL86 on its close approach to Earth in 2015*, **Astronomy & Astrophysics** vol **581**, id.A3, 7pp, 2015
83. Marcq E., Lellouch E., Encrenaz Th., Widemann T., **Birlan M.**, Bertaux J-L. - *Search for horizontal and vertical variations of CO in the day and night side lower mesosphere of Venus from CSHELL/IRTF 4.53 μ m observations*, **Planet Sp.Sci.**, vol **113**, p. 256-263, 2015.
84. Vernazza P., Marsset M., Beck P., Binzel R. P., **Birlan M.**, Brunetto R., Demeo F. E., Djouadi Z., Dumas C. - *Interplanetary Dust Particles as Samples of Icy The Astrophysical Journal*, vol **806**, Issue 2, id. 204, 10 pp. 2015
85. Carry B., Matter A., Scheirich P., **Pravec P.**, Molnar L., Mottola S., .., Binzel R.P., DeMeo F., **Birlan M.**, ...et al: - *The small binary asteroid (939) Isberga*, **Icarus** v. 248, pp 516-525, 2015
86. **Birlan M.**, Nedelcu D.A., Popescu M., Badescu O. – *Near-Earth Asteroids: observations via remote observing techniques*, **Rom Astron. J.**, vol **24**, n 1, 2014;
87. Popescu M., **Birlan M.**, Nedelcu D.A., Vaubaillon J., Cristescu C.P. – *Spectral properties of the largest asteroids associated to Taurid Complex*, **Astronomy & Astrophysics** vol **572**, id.A106, 16pp, 2014
88. Oszkiewicz D.A., Kwiatkowski T., Tomov T., **Birlan M.**, Geier S., Penttilä A., Polińska M.-*Selecting asteroids for a targeted spectroscopic survey*, **Astronomy & Astrophysics** vol **572**, id.A29, 12pp, 2014
89. Marsset M., Vernazza P., Gourgéot F., Dumas C., **Birlan M.**, Lamy P., Binzel R.P. - *Similar origin for low- and high-albedo Jovian Trojans and Hilda asteroids?*, **Astronomy & Astrophysics**, vol **568**, id.L7, 4pp, 2014
90. Vernazza P., Zanda B., Binzel R.P., Hiroi T., DeMeo F.E., **Birlan M.**, Hewins R., Ricci L., Barge P., Lockhart M.- *Multiple and Fast: The Accretion of Ordinary Chondrite Parent Bodies The Astrophysical Journal*, vol **791**, Issue **2**, article id. **120**, **22** pp., 2014
91. Nedelcu D.A., **Birlan M.**, Popescu M., Badescu O., Pricopi D. – *Evidence for a source of H chondrites in the outer main asteroid belt*, **Astronomy & Astrophysics**, vol **567**, id.L7, 5 pp, 2014
92. **Birlan M.**, Nedelcu A., Popescu M., Vernazza P., Colas F., Kryszczyńska A. : *Spectroscopy and surface properties of binary asteroid (809) Lunda*, **MNRAS**, vol **437**, Issue 1, p.176-184, 2014
93. Mousis O., Hueso R., Beaulieu J-P., Bouley S., Carry B., Colas F. ... **Birlan, M.** et al - *Instrumental Methods for Professional and Amateur Collaborations in Planetary Astronomy*, **Experimental Astronomy** vol 38, iss 1-2, pp 91-191, 2014
94. Vaduvescu O., **Birlan M.**, Tudorica A., Popescu M., Colas F., Asher D. et al - *739 observed NEAs and new 2-4 m survey statistics within the EURONEAR network*, **Planet Sp. Sci.**, vol **85**, pp.299-311, 2013.
95. Vaduvescu O., Popescu M., Comsa I., Paraschiv A., Lacatus D., Sonka A., Tudorica A., **Birlan M.**, Suciuc O. et al - *Mining the ESO and INT WFC archives for known NEAs. Mega-Precovery Software-Astronomische Nachrichten* vol. **334**, Iss. 7, pp.718-728, 2013.
96. Popescu M., **Birlan M.**, Nedelcu A. – *Modeling of asteroid spectra- M4AST*, **Astronomy & Astrophysics** vol **544**, id.A110, 2012
97. Barucci M.A., Belskaya I.N., Fornasier S., Fulchignoni M., Clark B.E., Coradini A., Capaccioni F., Dotto E., **Birlan M.**, Leyrat C., et al. - *Overview of Lutetia's surface composition*, **Planet Sp.Sci.**, vol **66**, pp.23-30, 2012.
98. Vernazza P. Lamy P., Groussin O. Hiroi T., Jorda L., King P.L.; Izawa M.R.M., Marchis F.; **Birlan M.**; Brunetto, R. - *Asteroid (21) Lutetia as a remnant of Earth's precursor planetesimals*, **Icarus**, vol **216**, Issue 2, pp. 650-659, 2011.
99. Popescu M., **Birlan M.**, Binzel R., Vernazza P., Barucci A., Nedelcu D.A., DeMeo F., Fulchignoni M. - *Spectral properties of eight near-Earth asteroids*, **Astronomy & Astrophysics** vol **535**, id.A15, 2011
100. Vaduvescu O., **Birlan M.**, Tudorica A., Sonka A., Pozo F.N. et al :- *EURONEAR – Recovery, follow-up and discovery of NEAs and MBAs using large field 1-2m telescopes*, **Planetary & Space Science** vol. 59, Iss. 13, pp 1632-1646, 2011.
101. **Birlan M.**, Nedelcu D.A., Descamps P., Berthier J, Marchis F., Merouane S., Popescu, M. : *Spectral properties of (854) Frostia, (1333) Cevenola, and (3623) Chaplin MNRAS* vol. **415**, Iss. 1, pp 587-595, 2011

102. Vaduvescu O., Tudorica A., **Birlan M.**, Opriseanu C., Vidican, D., R. Toma, Dumitru D., – *Mining the CFHT Legacy Survey for known Near Earth Asteroids* **Astronomische Nachrichten** vol. **332**, Iss. 6, pp.580-589, 2011.
103. DeMeo F.E., Carry B., Marchis F., **Birlan M.**, Binzel R. P., Bus S. J., Descamps P., Nedelcu A., Busch M., Bouy H.- (379) Huenna's satellite: a chip off the block, **Icarus** vol **212**, Iss **2**, pp 677-681, 2011
104. **Birlan M.**, Vaduvescu O., Tudorica A., Sonka A., Nedelcu A., Galad A., et al - *More than 160 Near Earth Asteroids Observed in the EURONEAR Network* - **Astronomy & Astrophysics** vol **511**, id.A40, 2010
105. Binzel R.P., Morbidelli A., Merouane S., DeMeo F., **Birlan M.**, Vernazza P., Thomas C., Rivkin A.S., Bus S.J., Tokunaga A. - *Earth encounters as the origin of fresh asteroid surfaces*, **Nature** vol **463**, Iss **7279**, pp. 331-334, 2010.
106. Vernazza P., DeMeo F., Nedelcu A., **Birlan M.**, Doressoundiram A., Erard S., Volquardsen E. - *Resolved spectroscopy of Mercury in the Near-IR with SpeX/IRTF*, **Icarus** vol **209**, 125-137, 2010.
107. Nedelcu A., **Birlan M.**, Souchay J., Assafin M., Andrei A.H., Badescu O., Popescu P., Paraschiv P. - *Apparent close approaches between Near-Earth Asteroids and quasars. Precise astrometry and frames linking*, **Astronomy & Astrophysics** vol **509**, id.A27, 2010
108. **Birlan M.**, Nedelcu A. – *Physics of Asteroids and Their Junction with Dynamics*, **Lecture Notes in Physics**, Vol. **790**, pp 229-250, 2010.
109. Descamps P., Marchis F., Michalowski, T., Berthier J., Pollock J., Wiggins P., **Birlan M.**, Colas F., Vachier F., Fauvaud S., et al - *A giant crater on 90 Antiope?*, **Icarus** vol **203**, Iss. **1**, pp. 102-111, 2009;
110. Vaduvescu O., Curelaru L., **Birlan M.**, Bocsa G., Serbanescu L., Tudorica A., Berthier J. - *EURONEAR: Data mining of asteroids and Near Earth Asteroids*, **Astronomische Nachrichten** vol **330**, N. **5**, pp. 698-707, 2009
111. Vernazza P., Binzel R.P., Rossi A., Fulchignoni M., **Birlan M.** – *Solar wind as the origin of rapid reddening of asteroid surfaces*, **Nature** vol **458**, pp 993-995, 2009;
112. Binzel R.P., Rivkin A., Thomas C.A., Vernazza P., Burbine T., DeMeo F., Bus S.J., Tokunaga A., **Birlan M.** – *Spectral properties and composition of potential hazardous asteroid (99942) Apophis*, **Icarus** vol **200** Iss. **2**, pp. 480-485, 2009;
113. **Birlan M.**, Nedelcu A. D., Lainey V., Arlot J.-E., Binzel R.P., Bus S.J., Rayner J., Vaduvescu O., Thuillot W., Colas F. – *Photometric and astrometric analysis of a mutual event between in the Uranian satellites Miranda and Oberon*, **Astronomische Nachrichten** vol **329**, N. **6**, 2008
114. Descamps P., Marchis F., Pollock J., Berthier J., Vachier F., **Birlan M.**, Kaasalainen M., Harris A.W., Wong M., Romanishin W., et al - *New determination of the size and bulk density of the binary asteroid 22 Kalliope from observations of mutual eclipses* – **Icarus** vol. 196, n 2, pp.578-600, 2008
115. Descamps P., Marchis F., Pollock J., Berthier J., **Birlan M.**, Vachier F., Colas F.- *2007 Mutual events within the binary system of (22) Kalliope* - **Planetary & Space Science** vol **56**, N **14**, pp 1851-1856 , 2008
116. Vaduvescu O., **Birlan M.**, Colas F., Nedelcu A., Sonka A. - *EURONEAR –First results* – **Planetary & Space Science** vol **56**, N **14**, pp 1913-1918 , 2008
117. Nedelcu A., **Birlan M.**, Vernazza P., Binzel R.P., Barucci M.A., Fulchignoni M. – *E-type asteroid (2867)Steins : Flyby target for Rosetta*, **Astronomy & Astrophysics** vol **473**, N **3**, pp. L33-L36, 2007 ;
118. **Birlan M.**, Vernazza P., Nedelcu A. – *Spectral properties of nine M-type asteroids*, **Astronomy & Astrophysics** vol **475**, N **2**, pp. 747-754, 2007 ;
119. Nedelcu, A., **Birlan, M.**, Vernazza, P., Descamps, P., Binzel, R.P., Colas, F., Kryszczyńska, Bus, S.J. – *Near-IR spectroscopy of the asteroid 21 Lutetia : II. Rotationally resolved spectroscopy of the surface*, **Astronomy & Astrophysics** vol **470**, n. **3**, pp 1157-1164, 2007;
120. Vernazza, P., Rossi, A., **Birlan, M.**, Fulchignoni, M., Nedelcu, A., Dotto, E. – *832 Karin : Absence of rotational spectral variations* **Icarus** vol **191**, n **2**, pp 330-336, 2007 ;
121. Descamps P., Marchis F., Michalowski T., Vachier F., Colas F., Berthier J., Assafin M., Dunckel P.B., Polinska M., Pych W., Hestroffer D., Miller K., Vieira-Martins R., **Birlan M.**, Teng-Chuen-Yu J., Peyrot A., Payet B., Dorseuil J., Leonie Y., Dijoux T. – *Figure of the double asteroid 90 Antiope from adaptive optics and lightcurve observations* **Icarus** vol **187**, n. **2**, pp 482-499, 2007;

122. Vernazza P., **Birlan M.**, Rossi A., Dotto E., Nesvorny D., Brunetto R., Fornasier S., Fulchignoni M., Renner S. – *Physical characterization of the Karin family* **Astronomy & Astrophysics** vol **460** n. **3**, pp 945-951, 2006;
123. Vaduvescu O., **Birlan M.** – *Planning Near-Earth Asteroid Observations on a 1m class telescope* **Romanian Astronomical Journal** v. **16**, n. **2**, pp 201-206, 2006;
124. **Birlan, M.**, Vernazza, P., Fulchignoni, M., Barucci, M.A., Descamps, P., Bus, S.J. – *Near Infra-Red Spectroscopy of the Asteroid 21 Lutetia: I. New results of long-term campaign*, **Astronomy & Astrophysics** v. **454**, Issue **1**, pp. 677-681, 2006;
125. Brunetto, R., Vernazza, P., Marchi, S., **Birlan, M.**, Fulchignoni, M., Orfino, V., Strazzula, G. – *Modeling asteroid surfaces from observations and irradiation experiments: the case of 832 Karin*, **Icarus** **184** Issue **2**, pp 327-337, 2006;
126. Marcq, E., Encrenaz, Th., Bezar, B., **Birlan, M.** – *Remote sensing of Venus' lower atmosphere from ground-based IR spectroscopy: longitudinal and vertical distribution of minor species*, **Planetary & Space Science** v. **54**, Issues **13-14**, pp 1360-1370, 2006;
127. Marcq, E., Encrenaz, Th., Bezar, B., **Birlan, M.** – *Latitudinal variations of CO and OCS in the lower atmosphere of Venus from near-infrared nightside spectro-imaging*, **Icarus**, v. **179**, Issue **2**, pp 375-386, 2005.
128. Barucci M.A., I. Belskaya, M. Fulchignoni, **M. Birlan** - *Taxonomy of Centaurs and Trans-Neptunian Objects*, **Astronomical Journal** v **130**, Issue **3**, 1291-1298, 2005.
129. Vernazza P. Mothe-Diniz T., Barucci A., **Birlan M.**, Carvanho J., Strazzulla G., Fulchignoni M., Migliorini A. - *Analysis of near-IR spectra of 1 Ceres and 4 Vesta, targets of the Dawn Mission*, **Astronomy and Astrophysics**, v.**436**, Issue **3**, pp 1113-1121, 2005.
130. Thuillot, W., Vaubailon, J., Scholl, H., Colas, F., Rocher, P., **Birlan, M.**, Arlot, J-E. - *Relevance of the NEO dedicated observing programs – Comptes-Rendu de l'Académie des Sciences*, v. **6**, Issue **3**, pp 327-331, 2005
131. Barucci, M.A., Fulchignoni, M., Fornasier, S., Dotto, E., Vernazza, P., **Birlan, M.**, Binzel, R., Carvano, J., Merlin, F., Barbieri, C., Belskaya, I. – *Asteroid target selection for the new Rosetta mission baseline : 21 Lutetia and 2867 Steins* – **Astronomy and Astrophysics** v.**430**, pp 313-317, 2005.
132. **Birlan M.**- *Near-IR spectroscopy of Karin family of asteroids*, **Romanian Astron. J.** v. **15** Issue **1**, 2005
133. Thuillot W., Arlot J-E., Stavinschi M., **Birlan M.**, Lainey V. - *Ground-based astrometry at the time of the GAIA mission* **Romanian Astron. J.** v. **15** Issue **1**, 2005
134. **Birlan, M.**, M.A. Barucci, W. Thuillot – *Solar system observations by remote observing technique : useful experience for robotic telescope strategies*. **Astronomische Nachrichten** No. **6-8**, pp 571-573, 2004.
135. **Birlan M.**, Barucci M.A., Vernazza, P., Fulchignoni M., Binzel R.P., Bus S.J., Fornasier S. *Near-Ir Spectroscopy of asteroids 21 Lutetia, 89 Julia, 140 Siwa, 2181 Fogelin, and 5480 (1989YK8), potential targets of the Rosetta mission; remote observations campaign on IRTF*, **New Astronomy**, Vol. **9 (5)**, pp 343-351, 2004.
136. Binzel, R.P., **Birlan, M.**, Bus, S.J., Harris, A., Rivkin, A.S., Fornasier, S.– *Spectral Observations for Near-Earth Objects Including Potential Target 4660 Nereus: Results From Meudon Observations at the NASA Infrared Telescope Facility (IRTF)*, **Planetary & Space Science**, Vol. **52(4)**, pp 291-296, 2004.
137. Fulchignoni, M, Delsanti, A., Barucci, M.A., **Birlan, M.** - *Toward a Taxonomy of the Edgeworth-Kuiper Objects: A Multivariate Approach* - **Earth, Moon, and Planets**, vol. **92**, pp 1-4, 2003.
138. Fornasier, S., Barucci, M.A., Binzel, R.P., **Birlan, M.**, Fulchignoni, M., Barbieri, C., Bus, S.J., Harris, A.W., Rivkin, A.S., Lazzarin, M., Dotto, E., Erikson, A., Doressoundiram, A., Bertini, I., Peixinho, N., - *A portrait of 4979 Otawara, target of the Rosetta space mission*, **Astronomy & Astrophysics**, vol **398**, pp 327-333, 2003.
139. **Birlan M.** – *First remote observation between IRTF-Hawaii and Observatoire de Paris-Meudon* **Ad-Astra**, vol **1**, n. **2**, 2002, ISSN 1583-0462
140. **Birlan M.** – *Dynamic and physical considerations on the asteroids' density*, **Earth, Moon and Planets** n. **88**, pp 1-10, 2002.
141. Bocsa G., **Birlan, M.** - *Intermediate stars in extragalactic radiosource fields* **Romanian Astronomical Journal**, vol **11**, n. **2**, pp 181-186, 2001.

142. Lazzarin M., Fornasier S., Barucci M.A., **Birlan M.** - *Groundbased investigation of asteroid 9969 Braille, target of the spacecraft mission Deep Space 1* **Astronomy & Astrophysics**, n. **375**, pp 281-284, 2001.
143. Barucci M.A., Fulchignoni, M., **Birlan M.**, Doressoundiram A., Romon J., Boehnhardt H. - *Analysis of Trans-Neptunian and Centaur colours: continuous trend or grouping?*, **Astronomy & Astrophysics**, n **371**, pp 1150-1154, 2001.
144. Fulchignoni M., **Birlan M.**, Barucci M.A. - *The extension of the G-mode asteroid taxonomy* **Icarus**, n. **146**, pp 204-212, 2000.
145. **Birlan M.** - *Emission in absorption lines; results of the SL9 L nucleus impact on Jupiter*, **Romanian Astronomical Journal**, vol **10**, n. **8**, pp 137-144, 2000.
146. Doressoundiram A., Weissman P.R., Fulchignoni M., Barucci M.A., LeBras A., Colas F., Lecacheux J., **Birlan M.**, Lazzarin M., Fornasier S., Dotto E., Barbieri C., Sykes M.V., Larson S., Hergenrother C. - *4979 Otawara: Flyby target of the Rosetta mission* **Astronomy & Astrophysics**, vol **352**, n. **2**, pp 697-702, 1999.
147. Vaduvescu O., Stefanescu G., **Birlan M.** - *CCD and photographic observations of the comet C/1996B2 (Hyakutake)* **Romanian Astronomical Journal**, vol. **8**, pp 43-51, 1998.
148. Bocsa G., **Birlan M.** - *Astrometric precise positions of the comet Hale-Bopp at Bucharest Observatory* **Romanian Astronomical Journal**, vol. **7**, pp 199-200, 1997.
149. Florczak M., Dotto E., Barucci M.A., **Birlan M.**, Erikson A., Fulchignoni M., Nathues A., Perret L., Thebault P. - *Rotational properties of main belt asteroids: Photoelectric and CCD observations of 15 objects* **Planetary & Space Science** vol. **45**, n. **11**, pp 1423-1435, 1997.
150. **Birlan M.**, Barucci M.A., Angeli C., Doressoundiram A., DeSanctis M.C. - *Rotational properties of asteroids: CCD observations of nine small asteroids* **Planetary & Space Science** vol. **44**, n. **6**, pp 555-558, 1996.
151. **Birlan M.**, Barucci M.A., Fulchignoni M. - *G-mode analysis of reflection spectra for 84 asteroids* **Astronomy & Astrophysics** vol **305** n. **2**, pp 984-988, 1996.
152. **Birlan M.**, Fulchignoni M., Barucci M.A. - *Effects of IRAS albedo corrections on Barucci's asteroid taxonomy*, **Icarus**, **124**, pp 352-354, 1996.
153. **Birlan M.** - *CCD photometry of the asteroid 2419 Moldavia*, **Romanian Astronomical Journal** vol. **6**, n. **1**, 1996.
154. Vaduvescu O., **Birlan M.** - *Software package for preparing and processing of an astronomical observation*, **Romanian Astronomical Journal** vol. **6**, n. **1**, pp 97-99, 1996.
155. **Birlan M.**, Bocsa G. - *Observations of minor planets in 1990-1994 at the Bucharest Astronomical Observatory*, **Romanian Astronomical Journal**, vol. **5**, n. **2**, pp 185-191, 1995.
156. Vass G, Bocsa G., Ionescu V., Alexiu A., **Birlan M.** - *A Preliminary Analysis of the DataBase for Wide-Field Plate Archive in Bucharest*, **Romanian Astronomical Journal** vol. **4**, n. **2**, pp 13-185, 1994.
157. Vass G, Bocsa G., Ionescu V., Alexiu A., **Birlan M.** - *Wide field plate archive data base in Bucharest*, **Romanian Astronomical Journal** vol. **4**, n. **2**, pp 179-181, 1994.
158. **Birlan M.** - *On the physical and dynamics properties of asteroids*, **Romanian Astronomical Journal** vol. **3**, n. **2**, pp 123-126, 1993.

CARTI

1. *Universul Aurorei – Dialoguri despre Soare* - Editura Zorio, ISBN 978-606-8759-54-8, 2023 (in Romanian)
2. *Introduction aux Ephemerides et phenomenes astronomiques* (Coordinateurs J. Berthier, P. Descamps, F. Migniard) (co-author Chapters 1 si 7) EDP Sciences INSB 978-2-7598-2414-4, 2021
3. *Universul Aurorei – Dialoguri despre Luna* - Editura Zorio, ISBN 978-606-8759-46-3, 2020 (in Romanian)
4. *Introducere in lumea asteroizilor* - Editura Zorio, ISBN 978-606-8759-23-4, 2018 (in Romanian)
5. *Connaissance des Temps* (2005-2020 Yearly Book) - EDP Sciences, ISBN: 978-2-7598-2132-XX (in French, member of Editorial Board and co-author of Chapters 1 and 8 each year)
6. *Anuarul Astronomic* 1998 - Editura Academiei Române, ISSN 0256-5277 (membru al Comitetului Editorial)
7. *Anuarul Astronomic* 1993-1997 - Editura Academiei Române (in Romanian, autor de capitole)

Articole publicate în volume de conferințe (46 articole):

1. **M. Birlan**, A. Sonka, A. Barucci, S. Anghel, C. Omat, M. Fulchignoni, S. Fornasier, A. Nedelcu - *L'importance des couleurs d'astéroïdes géocroiseurs pour la défense planétaire*, 4eme Symposium francophone de la Recherche scientifique, 30-31 octobre 2025, Iasi, Roumanie.
2. C. Omat, **M. Birlan**, V. Turcu, F. Deleflie, - *Analyse de la réentrée du satellite ERS-2*, 3eme Symposium francophone de la Recherche scientifique, 16-17 decembrie 2024, Cluj-Napoca, Roumanie.
3. S. Anghel, **M. Birlan**, A. Nedelcu et al., - *Le réseau MOROI : Suivi des météoroïdes entrant dans l'atmosphère au-dessus de la Roumanie*, 3eme Symposium francophone de la Recherche scientifique, 16-17 decembrie 2024, Cluj-Napoca, Roumanie.
4. **M. Birlan**, A. Doressoundiram, S. Marin, D. Ionescu, F. Deleflie, A. Nedelcu - *L'astronomie comme vecteur pour les sciences exactes dans l'éducation formelle* - 2eme Symposium francophone de la Recherche scientifique, 27-28 novembre 2023, Bucarest, Roumanie.
5. E. Perozzi, D. Perna, A. Mediavilla, F. Bernardi, E. Dotto, J. Nomen Torres, **M. Birlan**, J. De Leon, T. Hromakina, M. Lazzarin, A. Nastasi, V. Petropoulou, et al, *A Rapid Response Experiment carried out by the EU NEOROCKS project* - 2nd NEO and Debris Detection Conference, held in Darmstadt, Germany, from 24-26 January, 2023
6. M. Trelia, A. Sonka, **M. Birlan**, A. Nedelcu, V. Poenaru, M. Balan, A. Nita - *Strategy for GEO survey and results from NEEMO-T03 telescope in Romania* - 3rd IAA Conference on Space Situational Awareness (ICSSA) 4-6 April 2022, Madrid, Spain,
7. C. Marmo, F. Colas, S. Bouley, J. Vaubaillon, ..., **M. Birlan**, L. Maquet, ... - *The FRIPON project or pride and prejudice in citizen science*, ADASS XXVI, ASP Conference Series, vol 521, Astronomical Society of the Pacific, 2019
8. **M. Birlan**, A. Nedelcu - *Reflectance spectroscopy of asteroids*, 6-th International Conference "Telecommunications, Electronics and Informatics", Chisinau 24-27 mai 2018
9. Colas, F., **Birlan, M.**, J.-L. Rault, B. Zanda, S. Bouley, J. Gattacceca, J. Vaubaillon, P. Vernazza, S. Jeanne, L. Jorda, C. Marmo, et al, - *FRIPON—Status of radio and optical network*, International Meteor Conference, Petnica 18-21 September 2017, Serbia
10. Rault, J-L., **Birlan, M.**, Blanpain, C., Bouley, S., Caminade, S., Colas, F. et al - *Fine-scale observations of the Doppler frequency shifts affecting meteor head radio echoes* - International Meteor Conference, Petnica 18-21 September 2017, Serbia
11. B. Dumitru, **M. Birlan**, A. Nedelcu, M. Popescu - *Investigation of meteor shower parent bodies using various metrics*, Proceeding of the International Meteor Conference 2016, Egmond, Netherland, Eds.: Roggemans, A.; Roggemans, P., ISBN 978-2-87355-030-1, pp. 69-72A.
12. Sonka, **M. Birlan**, A. Nedelcu, M. Popescu - *PHEMU2015 observational campaign in the Astronomical Institute of the Romanian Academy*; PHEMU2015 Proceeding, Paris Observatory, France, 15-18 oct 2015

13. O. Erece, Z. Eker, M. Kaplan, G. Aslan, **M. Birlan**: - *Turkish Facilities to meet Gaia Solar System TOO Observations*, Gaia-FUN-SSO-3 Workshop Proceeding, Paris Observatory, France 24-26 November 2014,
14. Z. Eker, **M. Birlan**, M. Kaplan, O. Erece, G. Aslan, M. Popescu, A. Nedelcu: - *Astrometry and Photometry of Karin Asteroid Family Members*, Gaia-FUN-SSO-3 Workshop Proceeding, Paris Observatory, 24-26 November 2014, France
15. F. Colas, B. Zanda, S. Bouley, J. Vaubaillon, P. Vernazza, J. Gattacceca, C. Marmo, Y. Audureau, M.-K. Kwon, L. Maquet, J.-L. Raul, **M. Birlan**, A. Egal, M. Rotaru, C. Birnbaum, F. Cochard, O. Thizy - *The FRIPON and Vigiel-Ciel networks*, Internantional Meteor Conference, Giron 18-21 September 2014, France
16. Y. Audureau, C. Marmo, S. Bouley, M.-K. Kwon, F. Colas, J. Vaubaillon, **M. Birlan**, B. Zanda, P. Vernazza, S. Caminade, J. Gattececa - *FreeTure, A Free software to capTure meteors for FRIPON*, Internantional Meteor Conference, Giron 18-21 September 2014, France
17. M.-K. Kwon, F. Colas, J. Vaubaillon, **M. Birlan**, B. Zanda, C. Marmo, S. Bouley, Y. Audureau, P. Vernazza, J. Gattacceca - *Astrometry with fish eye lens and orbit determination*, Internantional Meteor Conference, Giron 18-21 September 2014, France
18. N. Rambaux, D. Galayko, J.-F. Mariscal, M.-A. Breton, J. Vaubaillon, **M. Birlan**, F. Colas, T. Fouchet - *Detection of spectral UV of meteor from a nanosatellite*, Internantional Meteor Conference, Giron 18-21 September 2014, France
19. **M. Birlan**, F. Colas, M. Popescu, A. Nedelcu – *Groundbased observational campaigns of NEAs*, GAIA-FUN workshop, Paris, Septembre 2012.
20. **M. Birlan** & EuroNEAR team- *Near-Earth Asteroids Data mining on Astronomical Databases: EuroNEAR experience. NAROO symposium*, Paris, June 2012
21. **M. Birlan** – *Near-Earth Asteroids as source of meteors* IMC2011 Proceedings, Sibiu 15-17 septembre 2011, Roumanie
22. R. P. Binzel, F. E. DeMeo, M. Lockhart, A. Tokunaga, C. A. Thomas, A. S. Rivkin, S. J. Bus, **M. Birlan**, P. Vernazza, and T. H. Burbine - *Spectral Reconnaissance for 200 Near-Earth Object Mission Targets*, **LPSC 42**, Huston, March 2011
23. M. Popescu, O. Vaduvescu, **M. Birlan** – *Mega-Precovery, a dedicated project for data mining worldwide image asrchives for poorly known assteroids*, Journées Scientifiques de l'IMCCE, 22-24 novembre 2010, en *Notes scientifiques et techniques de l'Institut de Mécanique Céleste*, S095, 2010;
24. **M. Birlan** – *V-type asteroids in the Main-Belt*, Journées Scientifiques de l'IMCCE, 22-24 novembre 2010, en *Notes scientifiques et techniques de l'Institut de Mécanique Céleste*, S095, 2010;
25. **M. Birlan**, O. Vaduvescu, A. Nedelcu and the EURONEAR team – *High precision astrometry via EURONEAR observations*, **Romanian Astronomical Journal Supplement**, vol **20**, pp 119-124, 2010
26. **M. Birlan** - *Accurate position of atmosphereless solar-system bodies*, **Romanian Astronomical Journal Supplement**, vol **20**, pp 135-140, 2010
27. **M. Birlan**, A. Nedelcu - *Astrometry in the Uranian system of satellites*, **American Institute of Physics Journal** EXPLORING THE SOLAR SYSTEM AND THE UNIVERSE, vol. **1043**, pp. 159-162, 2008
28. D. A. Nedelcu, **M. Birlan** - *Ground based science of ESA's Rosetta mission targets: (21) Lutetia and (2867) Steins*, **American Institute of Physics Journal** EXPLORING THE SOLAR SYSTEM AND THE UNIVERSE, vol. **1043**, pp. 171-174, 2008
29. **M. Birlan**, O. Vaduvescu – *Near-Earth Observations with 2.2m/WFI in ESO-La Silla*, Journées Scientifiques de l'IMCCE, 5-7 juin 2008, en *Notes scientifiques et techniques de l'Institut de Mécanique Céleste*, S094, 2008;
30. A. Nedelcu, J. Souchay **M. Birlan**, P. Popescu, P. Paraschiv- *Asteroids astrometry as a link between ICRF and the Dynamical Reference Frames* IAU Symposium No.248 A Giant Step: from Milli- to Micro-arcsecond Astrometry Shanghai, China October 15-19, 2007
31. Vernazza, P., Rossi, A., **Birlan, M.**, Fulchignoni, M., Nedelcu, A., Dotto, E. – *832 Karin : Absence of rotational spectral variations*, 38-th LPSC, March 12-16, 2007.
32. Binzel, R.P., Masi, G., Foglia, S., Vernazza, P., Burbine, T.H., Thomas C.A., DeMeo, F.E., Nesvorny, D., **Birlan, M.**, Renner, S., Fulchignoni, M. – *Searching for V-type and Q-type main-belt asteroids based on SDSS colors* 38-th LPSC, March 12-16, 2007.

33. **M. Birlan**, William Thuillot – *Remote observations technique; the CODAM achievements*, Proceedings of Nikolaiev Colloquium, Ukraine, 25-29 september 2006.
34. **M. Birlan** – *Tracers of Collisions in the Main Belt* – en *Notes scientifiques et techniques de l'Institut de Mécanique Céleste*, S087, 2006;
35. J.-L. Simon, A. Fienga, **M. Birlan**, J. Normand, W. Thuillot – *La nouvelle Connaissance des Temps* – en *Notes scientifiques et techniques de l'Institut de Mécanique Céleste*, S087, 2006;
36. Descamps P., Marchis F., Michalowski T., Vachier F., Colas F., Berthier J., Assafin M., Dunckel P.B., Polinska M., Pych W., Hestroffer D., Miller K., Vieira-Martins R., **Birlan M.**, Teng-Chuen-Yu J., Peyrot A., Payet B., Dorseuil J., Leonie Y., Dijoux T. – *Le système double d'Antiope* – en *Notes scientifiques et techniques de l'Institut de Mécanique Céleste*, S087, 2006;
37. **M. Birlan**, A. Nedelcu - *Collisions history in the main-belt by spectroscopic methods* ESLAB-40,; First International Conference on Impact Cratering in the Solar System, ESTEC Noordwijk, 8-12 Mai 2006 (ESA-SP612, July 2006);
38. **M. Birlan**, Gh. Vass, C. Teleanu – *Bringing forth the spirit of astronomy by using conceptual maps*, Communicating astronomy with the public 2005, Garching, 13-17 June 2005.
39. Barucci M.A., Fulchignoni, M., Belskaya, I., Vernazza, P., Dotto, E., **Birlan, M.** - *Rosetta asteroid candidates*, in *The NEW Rosetta targets. Observations, simulations and instrument performances* Astrophysics and Space Science Library (ASSL) Vol. 311, Kluwer (ISBN: 1-4020-2572-6). (Eds. L. Colangeli, E. Mazzotta-Epifani, P. Palumbo); 2004
40. A. Merand, **M. Birlan**, V. Coudé du Foresto, R. Lelu de Brach - *Remote observations with FLUOR and the CHARA Array*, **SPIE**, Vol. 5491, 2004
41. M.A. Barucci, M. Fulchignoni, **M. Birlan**, P. Vernazza, E. Dotto, A. Doressoundiram – *Rosetta asteroid candidates* - Highlights of Astronomy, vol. 13, **XXVth General Assembly of the IAU**, Sidney, July 2003
42. S. J. Bus, A. J. Denault, J. T. Rayner, R. P. Binzel, **M. Birlan** - *Remote observing at the NASA Infrared Telescope Facility (IRTF)*, - **SPIE** Conference, Advanced Global Communications Technologies for Astronomy II, Hawaii, August, 2002
43. **M. Birlan**, R. Binzel – *Paris Observatory Remote Observing January-May 2002: Sharing the Experience to Educational Astronomy*, Global Hands-On Universe Conference Proceedings, Paris, July, 2002
44. **M. Birlan** - *Asteroids density: an overview* - "Ceres 2001" Workshop IMCCE, Paris, 2001
45. **M. Birlan**, Bocsa G. - *Intermediate stars in extragalactic radio source fields: Astrometric measurements* IAU Colloquium 180, Washington, 2000
46. M.A. Barucci, **M. Birlan** - *Photométrie CCD: application aux astéroïdes* Quatrièmes rencontres des Carcassonne sur les techniques de détection optique en astronomie, Carcassonne, Mai, 1996

BREVETE

2021 – Observator mobil montat in container si destinate monitorizarii obiectelor aflate in apropierea Pamantului, OSIM Romania, auteurs: C. Banica, M. Birlan, M. Balan, A. Nedelcu (RO-BOPI 1/2021, 29/01/2021).

ORGANIZARE DE CONFERINTE, ATELIERE SI SCOLI TEMATICE

- 2026 – **9th International Conference in Astronomy, Astrophysics, Space and Planetary Sciences**, Cluj-Napoca, 1-3 July 2026
- 2026 – Atelier franco-român **Geo-Planeto workshop**, 15 iunie 2025, Bucuresti
- 2025 - ZAC 2025, Masa rotundă: **Efecte de selecție în evoluția Astronomiei românești**, miercuri, 12 noiembrie 2025
- 2025 – **4eme Symposium de la Recherche Scientifique Francophone en Europe centrale et orientale**, Iasi, Romania (SOC member, 30-31 oct 2025)
- 2025 - **8th International Conference in Astronomy, Astrophysics, Space and Planetary Sciences**, Cluj-Napoca, 2-4 July 2025

- 2025 – **Challenges of contemporary astronomy and the Chilean experience**, Bucharest, Romanian Academy (22 May 2025)
- 2024 – **3eme Symposium de la Recherche Scientifique Francophone en Europe centrale et orientale**, Cluj-Napoca, Romania (SOC member, 16-17 dec 2024)
- 2024 – **Astronomia Romaneasca si provocarile Astronomiei Mondiale** – Intre progres si impas, Masa Rotunda, Filiala Academiei Romane din Cluj Napoca (13 Noiembrie 2024)
- 2024 – **Nicolae Donici and Astronomy in Moldavian lands**, Academia Romana Romania (11 septembrie 2024)
- 2024 – **Modern Techniques in observational Astronomy**, Berthelot –Romania, (1-5 iulie 2024)
- 2024 – **6th KePassa international workshop** – Arras, France (SOC member) 12-14 iunie 2024
- 2023 – **7th International Conference in Astronomy, Astrophysics, Space and Planetary Sciences**, 10-12 iulie 2023, Cluj-Napoca, România.
- 2023 – **Miracolul științei – între intimitatea laboratorului și capcanele comunicării**, Masa rotunda, Filiala Academiei Romane din Cluj Napoca (27 octombrie 2023)
- 2023 – **2ème édition du Symposium de la recherche scientifique francophone en Europe centrale et orientale**, Bucuresti, Romania (SOC member) (27-28 noiembrie 2023)
- 2022 – **International conference, „Theory, Observations and Data Processing in Astronomy, Astrophysics, Space and Planetary sciences”**, 6-8 iulie 2022, Cluj-Napoca, România.
- 2021 – **International Conference, IAUS 364, “Multi-scale (time and mass) dynamics of space objects”**, 18-22 octombrie 2021, Iași, Romania (format mixt)
- 2021 – **International Conference, “Viewpoints in Astronomy, Astrophysics, Space and Planetary Sciences”**, 28-29 octombrie 2021, Cluj-Napoca (online)
- 2019 – **Journée de l'Action Féderatrice Astrochimie de l'Observatoire de Paris**, Salle de l'atelier, Paris, 11 janvier 2019 (co-organisateur);
- 2018 – **Solar System studies from the ground to in-situ observations**, Bucarest, Romania 24-25 septembrie 2018 (organisateur)
- 2018 – **ZAC2018 - Outlook in astronomy, astrophysics, space and planetary sciences**, Cluj-Napoca-Romania 17-19 mai 2018 (membre SOC)
- 2017 – **ZAC2017 - Connections in astronomy, astrophysics, space and planetary sciences**, Cluj-Napoca-Romania, 29-30 mai 2017 (membre SOC)
- 2015 – **PASSO - Physique et Astrométrie des Objets du Système Solaire**, Hateg Romania, 27-31 mai 2015 (organisateur)
- 2014 – **BiDS – Big Data from Space** – membre SOC, ESRIN Italy, 12-14 November 2014 (membre SOC)
- 2014 – **Workshop on Astrometry and Photometry of Asteroids**, August 4-9, Akdeniz University, Turquie, membre SOC et conférencier (16 heures)
- 2013 – **CODAM-10**, workshop au CIAS Meudon, Organizer & Chairman
- 2012 – **Diaspora 2012**, Bucarest Romania, workshop Espace & Technologie, Co-Chairman
- 2010 – **Journées Scientifiques** de l'IMCCE – membre du Comité Local d'Organisation(LOC)
- 2009 – **MARCO POLO** meeting, Paris, France, - membre du LOC
- 2007 – Formation permanente CNRS, **Ecole du savoir**, OHP avril 2007 –coorganisateur de l'école
- 1997 – **PERSEIDE'97**, Targoviste, Roumanie – initiateur du concours d'astronomie
- 1995 – **PHESAT'95**, Bucarest, Roumanie – membre du LOC

MINOR PLANET ELECTRONIC CIRCULARS

- MPEC 2025-K133, 2025-K134 (2025 KV7)
- M.P.E.C. 2023-H108: 2023 HF2; M.P.E.C. 2023-H117: 2023 HM2; M.P.E.C. 2023-H119: 2023 HO2; M.P.E.C. 2023-H121: 2023 HQ2; 2023-H125: 2023 HS2; 2023-H141: 2023 HF3; 2023-H147: 2023 HM3;
- GCN CIRCULAR, NUMBER: 33537: SUBJECT: GRB 230328B

- M.P.E.C. 2022-B142:2022 BY4; M.P.E.C. 2022-B143:2022 BZ4; M.P.E.C. 2022-B144:2022 BA5; M.P.E.C. 2022-B147:2022 BD5; M.P.E.C. 2022-B151:2022 BN5, M.P.E.C. G72 (Daily orbit update)
- MPEC 2021-80: 2021 WJ1 MPEC 2021-W91: 2021 WW1; MPEC 2021-W92: 2021 WX1; MPEC W93: 2021 WY1; MPEC 2021-W95: 2021 WZ1, MPEC W116: 2021 WT2, MPEC W153: 2021 WL4, MPEC W155: 2021 WN4, MPEC W156: 2021 OY20,
- CBET 4793 (2020, comet 246P/NEAT), MPEC M95: 2020 MF2
- MPEC 2019-S182, M.P.E.C. 2019-T11, M.P.E.C. 2019-T22, M.P.E.C. 2019-T44(interstellar object Borisov)
- MPEC 2018-B155
- MPEC 2017 - J52: Observations and orbits of comets
- MPEC 2014-V25, 2014-V20, 2014-V16, 2014-V15, 2014-V10
- MPEC 2012, No. 77927
- MPEC 2011, No. 77173, MPEC-2011-W23-W30-W31 (Daily orbit update obs code 586), MPEC-2011-W29 – 2011 WW4, MPEC-2011-W28 – 2011 WV4, MPEC-2011-W27 – 2011 WU4, MPEC-2011-W25 – 2011 WP4, MPEC-2011-W22 – 2011 WV2, MPEC-2011-W12 – 2011 WM2, MPEC-2011-E68 – Daily orbit update (Apophis), MPEC-2011-E14 -2011 ET4, MPEC-2011-E13 – 2011 ES4, MPEC-2011-E12 – 2000 EB14, MPEC-2011-E11 – 2007 ES, MPEC 2010-W13 – 2010 RF181
- MPEC 2010-W12 – 2010 WJ, MPEC 2010-W11 – 2010 WH, MPEC 2010-H57 – Comet Vales
- MPEC 2009-X30 (3 Dec 2009) – 2007 WV3, M.P.C 66690 (Aug 2009) – astrometry OHP, M.P.C. 66453 (July 2009) astrometry OHP
- IAUC 9024, (3 Mars 2009) – 2009 DD45
- M.P.C. 63369, (Aout, 2008) - astrometry ESO - MPI/WFI-2.2m, M.P.C. 62262 (Mai, 2008) - astrometry ESO - MPI/WFI-2.2m, M.P.C. 62573 (Avril, 2008) – astrometry ESO - MPI/WFI-2.2m
- M.P.C. 59865 (June, 2007) - 153 positions for 18 NEAs and PHAs observed at Haute Provence using the 1.2m telescope, MPEC 2007-J32 - 2007 JX2 (first recovery of a new asteroid)
- M.P.C. 57118 (May, 2006) - 122 positions for 13 NEAs and PHAs observed at Pic du Midi using the 1m telescope

Conferinte, invitat:

1. **Mirel Birlan – Small Solar System Bodies in the framework of planetary defense paradigm – 5th ISIM & ISWIM Conference, Bucharest, 25-27 june 2026, Romania**
2. **Mirel Birlan, Alin Nedelcu, Vlad Turcu, Adrian Sonka, Octavian Blagoi, et al – Assessing the observational infrastructure and strategic roadmap of the Astronomical Institute of the Romanian Academy, 8th International Conference on Astronomy, Astrophysics, Space and Planetary Sciences, Cluj Napoca, 1-3 June 2026**
3. **Mirel Birlan, Ana Naghi, Sorin Marin, Carmen Busu, Iharka Szucs-Csillik, Alain Doressoundiram, Gustavo Rojas, Mimoza Hafizi, Francoise Roques - Invatarea astronomiei prin intermediul modulului educational al exoplanetelor – Astro-Space-Fest 2025 Targoviste 16-17 octombrie 2025**
4. **Mirel Birlan, Alin Nedelcu, Vlad Turcu, Adrian Sonka, Madalina Trelia, Cristian Omat, Ulpia Botezatu, Dan Moldovan, Diana Ionescu, Octavian Badescu, Simon Anghel, Sorin Marin - The Dimming Sky: Preserving Astronomical Research in a Satellite-Populated Space Paradigm - Outlook on resilience; space challenges, 12th of June 2025, Palace of the Parliament, Bucharest**
5. **M. Birlan, D.-A. Nedelcu, Diana Beşliu-Ionescu, V. Turcu, D. Pricopi, O. Badescu, A. Pop, O. Blagoi Astronomical research inside the Romanian Academy; Astronomical Institute Forumul astronomic „Provocările astronomiei contemporane în societate şi experienţa chiliană”**

6. **M. Birlan**, A. Sonka, S. Anghel, A. Barucci, C. Omat, S. Fornasier, M. Fulchignoni - **Near-Earth Asteroids colors in two European Projects: Neorocks and Neopops** 8th International Conference on Astronomy, Astrophysics, Space and Planetary Sciences, Cluj Napoca, 2-4 June 2025
7. **M. Birlan** – **Proprietati fizice ale asteroizilor si importanta lor in cadrul riscurilor naturale pentru Terra**, Împuțernicirea generației următoare pentru un viitor resilient (Ziua internațională a pentru reducerea riscului dezastrelor naturale, Magurele - INCDFP, Romania, 11 octombrie 2024
8. **M. Birlan**, D.-A. Nedelcu, Diana Beșliu-Ionescu, V. Turcu, O. Blagoi - **Prezentul și perspectivele astronomiei române**, Nicolae Donici și astronomia pe meleaguri moldovene, Aula Academiei Romane, 11 septembrie 2024
9. **M. Birlan**, S. Anghel, A. Sonka, E. Petrescu - **European Programme NEOROCKS for observing and threatening asteroids**, Modern Techniques in Observational Astronomy, General Berthelot-Romania, 1-5 iulie 2024
10. **M. Birlan** - **Sonification of astronomical data**, Modern Techniques in Observational Astronomy, General Berthelot-Romania 1-5 iulie 2024
11. C. Omat, **M. Birlan**, V. Turcu - **Re-entry survivability analysis of ERS-2 satellite**, Modern Techniques in Observational Astronomy, General Berthelot-Romania, 1-5 iulie 2024
12. A. Nedelcu, M. Trelia, **M. Birlan**, A. Sonka, O. Badescu, N. Docu, C. Lazar, A. Huzoni - **Space Surveillance and Tracking Activities at the Astronomical Institute**, Modern Techniques in Observational Astronomy, General Berthelot-Romania , 1-5 iulie 2024
13. M. Trelia, D.A. Nedelcu, **M. Birlan** - **APSYS - a real time pipeline for photometric data reduction**, KEy topics in orbit Propagation Applied to Space Situational Awareness, Arras-France, 12-15 iunie 2024
14. C. Omat, M. Trelia, D.A. Nedelcu, **M. Birlan** - **The atmospheric re-entry of Starlink-1353 satellite**, KEy topics in orbit Propagation Applied to Space Situational Awareness, Arras-France, 12-15 iunie 2024
15. C. Omat, **M. Birlan**, V. Turcu - **Re-entry survivability analysis of ERS-2 satellite**, Bucharest University Faculty of Physics 2024 Meeting, 24 mai 2024, Magurele, Romania
16. **M. Birlan**, S. Bouley – **Activités et résultats des réseaux Fripon et Vigie-Ciel**, ASTROEDU-FR_23, Astronomie pour l'Education dans l'espace francophone Tunis, 9-11 noiembrie 2023
17. **M. Birlan**, A. Pop – **Miracolul științei- între intimitatea laboratorului și capcanele comunicării**, Masa rotunda, Zilele Academice Clujene, 27 octombrie 2023
18. **M. Birlan** - **Istoria Sistemului Solar prezentata de asteroizi si meteoriti**, AstroFest2023, Targoviste 18-21 octombrie 2023
19. **M. Birlan** - **Astronomy in the context of historical evolution of sciences**, European Society for History of Science, Workshop Bucharest 21-22 septembre 2023
20. **M. Birlan**; Vernazza, P.; Ferrais, M.; Jorda, L.; Hanuš, J.; Carry, B.; Marsset, M.; Brož, M.; Fetick, R.; Viikinkoski, M.; Marchis, F.; Vachier, F.; Drouard, A. **New estimation of density for the largest main-belt asteroids**, 7th International Conference in Astronomy, Astrophysics, Space and Planetary Sciences – ZAC2023, Cluj-Napoca, July 10-12, 2023
21. M.A. Barucci, **M. Birlan**, T. Hrokamina, M. Fulchignoni, F. Colas, S. Fornasier, F. Merlin, A. Sonka, S. Anghel, I. Belskaya, D. Perna, E. Dotto and the NEOROCKS team - **NEOROCKS Project: Spectrophotometry of small Near-Earth Asteroids**, Planetary Defence Conference, Vienne 2-7 april 2023
22. **M. Birlan**, D. A. Nedelcu, A. Sonka, V. Turcu, D. Moldovan, O. Blagoi, *Near-Earth Objects Obiecte și fenomene în spațiul extraatmosferic: monitorizare și evaluarea riscurilor* Winter School Marisel, Romania 21 – 24 March 2022 (online)
23. **M. Birlan**, D. A. Nedelcu, D. Ionescu, O. Bădescu, R. Boata, V. Turcu, D. Pricopi, M. Rushton, *Astronomia și educația prin astronomie în România Conferința Cercetării Științifice din Academia Română (CCSAR-2021)* 22 – 23 noiembrie 2021 (online)
24. Anghel, S.; Nedelcu, D. A.; **Birlan, M.**; Boaca, I.; Colas, F.; Malgoyre, A.; Moroi; Fripon Teams, *Phase Two of MOROI Network: Connection with FRIPON and Pipeline Development for Studying Meteoroids* - 84th Annual Meeting of the Meteoritical Society, held August 15-21, 2021 in Chicago, Illinois. LPI Contribution No. 2609, id.6027 (exposé orale)
25. Ioana-Lucia BOACA Alin Nedelcu, **Mirel Birlan**, Tudor Boaca, Simon Anghel, *Trajectory reconstruction of meteors detected by the MOROI network*, IAU Symposium Multiscale (time and mass) dynamics of space objects, Iași, Romania, October 18–22, 2021 (exposé orale)
26. Simon Anghel, **Mirel Birlan**, Dan-Alin Nedelcu, *Energy estimation of decimeter scale meteoroids impacting the atmosphere*, IAU Symposium Multiscale (time and mass) dynamics of space objects, Iași, Romania, October 18–22, 2021, (exposé orale)
27. A. Sonka, **M. Birlan**, A. Nedelcu – *The fragmentation of comet C/2019Y4 (ATLAS)* – Bucharest University Faculty of Physics Meeting 2021 Meeting – 17-18 June 2021
28. Thomas, C., Rivkin, A., Moskovitz, N., ... **M. Birlan**, ... - *Constraining the Orbital Parameters of the Didymos-Dimorphos System: Lightcurve Observations in Preparation for AIDA/DART* – Lunar and Planetary Science Conference, 15-18 March 2021,
29. E. Dotto, M. Banaszkiwicz, S. Bianchi, ... **M. Birlan**, ... - *The EU H2020 project NEOROCKS- The NEO Rapid Observation, Characterization, and Key Simulation Project* – Lunar and Planetary Science Conference, 15-18 March 2021
30. E. Dotto, M. Banaszkiwicz, S. Bianchi, ... **M. Birlan**, ... - *The EU H2020 programme NEOROCKS*, European Planetary System Conference 21 Septembre – 9 Octobre 2020 (online)
31. **M. Birlan**, F. Colas, F. Cochard, et al - *Sovag-news of project*, Journée Action Federatrice ESTERS, 21 Février 2020, Observatoire de Paris, France.
32. F. Colas, B. Zanda, **M. Birlan**, Fripon & Vigie-ciel teams - *Fripon et Vigie ciel – résultats scientifiques*, Journée Action Federatrice ESTERS, 21 Février 2020, Observatoire de Paris, France.
33. **Mirel Birlan**, D.A. Nedelcu, A. Sonka, M. Balan, V. Plesca, C. Banica, C. Gandescu, A. Pandelescu, T. Georgescu: *Tests of mobile platforms for optical astronomy*, New horizons in space and planetary astrophysics. Honoring IAU 100, October 16-19, 2019, Bucarest, Romania
34. **M. Birlan** - *Near-Earth-Objects Reflectance Spectroscopy*, Natural Space Risks 2019, Summer School, Observatoire de Paris 26-31 aout 2019

35. D.A. Nedelcu, **M. Birlan** - *Astrometry of Potentially Active Asteroids*, The ninth congress of Romanian mathematicians, Galati, June 28- July 3, 2019, Romania
36. **M. Birlan** - *Observing and modeling asteroids : morphology and internal structure*, Geosciences Day, Academia Romana, Aula Magna, Bucharest 31 May 2019
37. A. Nedelcu, **M. Birlan**, V. Turcu, O. Badescu, C. Dumitrache, et al - *Photographic Plate Archive in the Astronomical Institute of the Romanian Academy: recent progress*, Workshop NAROO, Meudon 1-3 april 2019.
38. A. Sonka, **M. Birlan**, S. Anghel, F. Vachier, J.Berthier, A. Klotz, et al - *Photometry Observations of 2005 UD from Bucharest and Le Makes Observatories*, PERC-IDP 2019, February 11-14, Chiba, Japon
39. **M. Birlan** - *Spectroscopy of asteroids*, Journee Action Federatrice Astrochimie, 11 Janvier 2019, Observatoire de Paris, France.
40. **M. Birlan**, A. Sonka, O. Badescu, A. Gornea, S Anghel, A Nedelcu, F. Colas, and P. Vernazza - *Observational opportunities for Near-Earth Objects*, 7th IAA Conference on Space Systems as Critical Infrastructure Ways, Means, Resilience, 2-3 August 2018, Mamaia, Romania
41. **M. Birlan**, A. Sonka, A. Gornea, S Anghel, A Nedelcu, F. Colas, and P. Vernazza - *Surveillance and opportunities for observing Near-Earth Objects*, Didymos Observer Workshop, Prague June 19-21, 2018, Czech Republic.
42. **M. Birlan**, A. Nedelcu - *Reflectance spectroscopy of asteroids*, 6-th International Conference "Telecommunications, Electronics and Informatics", Chisinau 24-27 mai 2018
43. **M. Birlan**, F. Colas, B. Zanda, J. Vaubaillon, S. Bouley, P. Vernazza, J-L. Rault - *Records and status of FRIPON network*, Cluj Academic Days, Cluj Mai 17-19, 2018
44. A. Nedelcu, **M. Birlan**, V. Turcu, O. Badescu, I. Boaca, A. Gornea, O. Blagoi, C. Danescu, P. Paraschiv - *The MOROI network, Meteorite Orbits Reconstruction by Optical Imaging*, Cluj Academic Days, Cluj Mai 17-19, 2018
45. **M. Birlan** - *Les projets Cubesats dans le périmètre d'ESTERS - Meteorix*, AG-ESTERS, Observatoire de Paris, 3 avril 2018
46. S. Jeanne, F. Colas, B. Zanda, J. Vaubaillon, S. Bouley, C. Marmo, J-L Rault, ..., **M. Birlan** - *FRIPON, status of the radio and optical network*, International Meteor Conference, 21-25 sept 2017, Petnica, Serbie
47. J-L Rault, **M. Birlan**, S. Bouley, S. Caminade, F. Colas, et al - *FRIPON fine-scale observations of the Doppler frequency shifts affecting meteor head radio echoes* International Meteor Conference, 21-25 sept 2017, Petnica, Serbie
48. J. Vaubaillon, A. Egal, M.K. Kwon, C. Marmo, **M Birlan**, et al - *FRIPIPE: the FRIPON pipeline*, International Meteor Conference, 21-25 sept 2017, Petnica, Serbie
49. **M.Birlan** - *Near-Earth Asteroids: spectroscopic observations*, Natural Space Risks, Observatoire de Paris, 28 aout-1septembre 2017
50. **M.Birlan** - *The importance of asteroids in deciphering the Solar System history*, Asteroid Day 30 June 2017, Astron. Institute of the Romanian Academy, Bucharest Romania
51. **M.Birlan** - *Camera hyperspectrale pour l'utilisation spectroscopique dans l'analyse des géocroiseurs; retour d'expérience vers METEORIX* - Réunion Meteorix - 27 juin 2017, Université Paris 6
52. **M. Birlan** - *Asteroid families: diversity inside the small solar system body population*, Cluj Academic Days, Cluj Mai 29-30, 2017.
53. **M. Birlan** - *Spectrographe pour observations en visible d'astéroïdes géocroiseurs en 2017* - AG du Pole ESTERS de Observatoire de Paris, Meudon le 30 Janvier 2017;
54. J. Vaubaillon, B. Tregon, **M. Birlan**, F. Jabet - *Projet MUSCAT: relevé complet de météores* - Colloque DIM-ACAV, Observatoire de Paris, 12 Decembre 2016;
55. **M. Birlan** - *Spectrographe pour observations en visible d'astéroïdes géocroiseurs* - Colloque DIM-ACAV, Observatoire de Paris, 12 Decembre 2016;
56. **M. Birlan** - *FRIPON - network of meteor allsky cameras*, Cluj Academic Days, Cluj Mai 29-30, 2016.
57. **M. Birlan** - *Asteroid spectra for revealing mineralogy of surfaces*, Workshop: The nature of the dark primitive asteroids: Preparations for OSIRIS-REx and Hayabusa 2 missions, 25-27 Mai 2016, Observatoire de Paris-Meudon, France
58. **M. Birlan**, N. Rambaux, D. Galayko, et al - *METEOR - one project of nanosat for education in Paris VI University* - Prietenii Diasporei, 25-28 avril 2016, Timisoara, Romania
59. **M. Birlan**, M. Popescu, A. Nedelcu, A. Sonka, B. Dumitru - *Physics of two PHAs using groundbased observations* - AIM scientific meeting, 1-2 March 2016, ESAC - Vilafranca, Spain
60. **M. Birlan** - *Solar System observations in the space exploration era* - Lights of the World, 30 Oct -1 Nov 2015, Bucharest Parliament Palace, Romania
61. Sonka A., Popescu M., Nedelcu A., **Birlan M.** - *PHEMU2015 - the Bucharest observational program*, L'astrométrie/photométrie du système solaire après GAIA, Meudon/Paris 15-18 oct 2015
62. **Birlan M.** - *Monitoring Near-Earth Asteroids in the frame of natural hazards* Space as critical infrastructure Mamaia Romania 6-7 august 2015
63. **Birlan M.** - *Co-ordination of surveys for Near-Earth Asteroids* - PASSO, Hateg Romania, 27-31 mai 2015
64. **Birlan M.** - *Data mining archives and NAROO project* - PASSO, Hateg Romania, 27-31 mai 2015
65. **Birlan M.** - *Meteor - a nanosat educational project of "Pierre et Marie Curie" Paris 6 University* - PASSO, Hateg Romania, 27-31 mai 2015
66. **Birlan M.** - *NEO Event: Fireball over Romania* - UNO - COPUOS Scientific and Technical Subcommittee - 52 session, Vienne, 3-5 Février 2015
67. Nedelcu D.A., **Birlan M.**, Popescu M., Bădescu O. - *Observații spectroscopice ale asteroizilor în domeniul infraroșului apropiat*, Astronomul Nicolae Donici - 140 de ani de sa naissance, Academie Roumaine -Bucarest, 8 Septembre 2014
68. **Birlan M.** - *Physics of binary asteroids via astronomical observations*, Cluj Academic Days, Cluj Mai 29-30, 2014.
69. **Birlan M.** - *CODAM - Overview of facility/science inside Paris Observatory*, CODAM-10 workshop, Meudon, France, 21-22 January, 2013

70. **M. Birlan** – *Marco Polo-R – Sample return mission for Near-Earth Asteroids, in study to ESA Diaspora 2013/Spatiu-Stiinta, Tehnologie si Aplicatii*, Bucurest, 25-28 september 2012, Romania ;
71. **M. Birlan** – *Groundbased observational campaigns of NEAs*, GAIA-FUN workshop, Paris, Septembre 2012.
72. **M. Birlan** – *Remote observing spectra of asteroids*, Golden Age of Solar System Exploration, Roma, 11-13 september 2012, Italy ;
73. **M. Birlan** - *Near-Earth Asteroids Data mining on Astronomical Databases: EuroNEAR experience*. NAROO symposium, Paris, June 2012
74. **M. Birlan** - *L'observation des astéroïdes géocroiseurs, programme EURONEAR, les observations spectroscopiques*, PROAM 2012, Ecole thématique CNRS, rencontre astronomes professionnels et amateurs, La Rochelle 30 mai-3 juin 2012 ;
75. **M. Birlan**, M. Popescu, F. Colas, and A. Nedelcu: – *Focus on (175706) 1996FG3: modeling spectra using M4AST and new observational results from Pic du Midi* Physical characterization of Marco Polo-R targets, Meudon 12-13 janvier 2012, France
76. **M. Birlan** – *Near-Earth Asteroids as source of meteors* International Meteor Conference, Sibiu 15-17 septembre 2011, Roumanie
77. **M. Birlan** – *Le réseau Euronear : présent et projets pour les astéroïdes géocroiseurs*, Réunion de travail de l'Association Aude, 19 mars 2011, Observatoire de Paris, Salle de l'Atelier
78. **M. Birlan** - *Les géocroiseurs : petits, frais, dangereux,... mais pas trop!*, Colloque ADSG, 18 mars 2011, Université de Namur, Belgique
79. **M. Birlan** – *Spectroscopy of Near-Earth Asteroids*, Collisions dans le système solaire, Ecole CNRS 3-8 mai 2010, Cussac , France
80. **M. Birlan**, O. Vaduvescu, A. Nedelcu and the EURONEAR team – *High precision astrometry via EURONEAR observations*, Conference on Recent Insights into our Universe, Bucharest, Romania, 28–29 October 2009
81. **M. Birlan** - *Accurate position of atmosphereless solar-system bodies*, Conference on Recent Insights into our Universe, Bucharest, Romania, 28–29 October 2009
82. **M. Birlan** - *Observations of NEOs in the frame of EuroNEAR* – Workshop Earth-Based support to GAIA solar system science, Beaulieu sur mer, France, 27-28 oct 2008
83. **M. Birlan**, O. Vaduvescu – *Near-Earth Observations with 2.2m/WFI in ESO-La Silla*, Journées Scientifiques de l'IMCCE, 5-7 juin 2008
84. **M. Birlan** – *Physical properties and surface composition of Main-Belt asteroids* - The Solar System Bodies: from Optics to Geology, Kharkov –Ukraine, 26-29 mai 2008
85. **M. Birlan**, A. Nedelcu - *Astrometry in the Uranian system of satellites*, Exploring the solar system and the universe, Bucharest, Romania, 8–12 April 2008
86. D. A. Nedelcu, **M. Birlan** - *Ground based science of ESA's Rosetta mission targets: (21) Lutetia and (2867) Steins*, Exploring the solar system and the universe, Bucharest, Romania, 8–12 April 2008
87. J.-E. Arlot, **M. Birlan**, V. Robert, V. Lainey, D. Pascu, L. Winter, J.-P. de Cuyper, Gh. Bocsa, L. Serbanescu, E. Khrutskaya - *Exploration of the Solar system: projection of the past into the future*, Exploring the solar system and the universe, Bucharest, Romania, 8–12 April 2008
88. **Mirel Birlan** – *Familles physiques d'astéroïdes* - Ecole thématique CNRS: Récentes Investigations en Dynamique des Corps Célestes dans les Systèmes Solaire et Extra-solaires, Bad Hofgastein, Autriche, mars 2007.
89. **Mirel Birlan** - *Mineralogy variegation on binary systems of asteroids* - Asteroids and Resonances: Open Problems and Perspectives - Commemorative workshop for the 70th anniversary of Professor Sylvio Ferraz Mello, Meudon Observatory, September 25-28, 2006
90. **Mirel Birlan**, Gheorghe Vass, Constantion Teleanu – *The epistemological background of our strategy* – SPS2 – Strategies in teaching astronomy, IUA – GA, Prague, 14-15 august 2006.
91. **Mirel Birlan** – *Spectroscopie des familles d'astéroïdes* PROAM 2006, Ecole thématique CNRS, rencontre astronomes professionnels et amateurs, 23-26 mai 2006
92. **Mirel Birlan** - *L'observation à distance en infra-rouge proche des corps du système solaire* Nouvelles techniques d'observation et bases de données : apports en astrométrie et mécanique céleste, Ecole thématique CNRS, 21-25 mars 2005
93. **Mirel Birlan** – *Remote observing in Paris – CHARA Collaboration* – One Year Review Workshop, Paris, 7-12 February, 2005.
94. **Mirel Birlan** - *Near-IR spectroscopy of Karin family of asteroids*, Astrometry with Small Telescopes, Bucharest 20-22 October 2004.
95. **Mirel Birlan** - *Density of small bodies on the solar system: correlations and cosmogonical implications* - Scientific session of the Romanian Academy, Bucharest, 20-22 April 2000.
96. **Mirel Birlan** - *CCD photometry of the asteroids targets of the ROSETTA mission* - Scientific session of the Romanian Academy, Bucharest, 1998
97. **Mirel Birlan**, Maria Antonietta Barucci - *Pratique de la photométrie des astéroïdes* - Quatrièmes rencontres sur les techniques de détection optique en astronomie, Carcassonne, May 1996.

Prezentari si Postere

1. **M. Birlan**, A. Sonka, S. Anghel, A. Barucci, C. Omat, S. Fornasier, M. Fulchignoni - *Near-Earth Asteroids colors in two European Projects: Neorocks and Neopops* 8th International Conference on Astronomy, Astrophysics, Space and Planetary Sciences, Cluj Napoca, 2-4 June 2025
2. **M. Birlan**, D. Ionescu-Besliu - *The Romanian Astronomical Journal – Highlights* - 8th International Conference in Astronomy, Astrophysics, Space and Planetary Sciences, Cluj-Napoca, 2-4 July 2025.

3. **M. Birlan**, A. Sonka, S. Anghel et al - Near-Earth Asteroids colors in two European projects: NEOROCKS and NEOPOPS - 8th International Conference in Astronomy, Astrophysics, Space and Planetary Sciences, Cluj-Napoca, 2-4 July 2025.
4. **M. Birlan**, A. Naghi, S. Marin et al - Romanian partnership to Erasmus+ Exo4Edu project - 8th International Conference in Astronomy, Astrophysics, Space and Planetary Sciences, Cluj-Napoca, 2-4 July 2025.
5. Cristian Omat, **Mirel Birlan** - *Satellite mega constellations: operational risks and impact on astronomic ground-based observation*, Bucharest University Faculty of Physics 2023 Meeting, 26 May 2023
6. Mirela Mădălina TRELIA, Dan Alin NEDELCU, **Mirel BIRLAN**, - *Automated photometric survey of inactive satellites (APSS)* Bucharest University Faculty of Physics 2023 Meeting, 26 May 2023
7. Jean-Yves Prado, Alain Perret, Olivier Boisard, Florent Deflelie, **Mirel Birlan** - **Solar sails Asteroid Grand Tour Coopetition**, Planetary Defence Conference, Vienne 2-7 avril 2023
8. **Mirel Birlan**, Tetiana Hromakina, Antonella Barucci, et al - *Color indexes survey of NEOROCKS Near Earth Objects targets*, IAU General Assembly, - FM8 – Busan, Republic of Korea, 2-11 August 2022
9. Petropoulou, Vasiliki; Cellino, Alberto; Banaszkiewicz, D. Marek ..., **Mirel Birlan**, *NEOROCKS: An innovative and pragmatic approach to planetary defense*, 44th COSPAR Scientific Assembly. Athen 16-24 July, 2022
10. Fulchignoni, Marcello; Barucci, Maria Antonietta; Fornasier, Sonia **Mirel Birlan**, ... *NEOROCKS PROJECT: Actions to Increase in a Significant and Coherent Way our Knowledge on the Largest Fraction of the NEO Population*, 44th COSPAR Scientific Assembly. Athen 16-24 July, 2022.
11. Boaca, Ioana Lucia; Gritsevich, Maria; **Birlan, Mirel**, et al - *The interaction of meteoroids with the atmosphere*, 24th EGU General Assembly, Vienna, 23-27 May, 2022
12. Anghel, Simon; Voiculescu, Mirela; Nedelcu, Dan-Alin, **Birlan, Mirel** - *Cloud coverage estimation via deep learning applied to all-sky data in Romania : First Results*, 24th EGU General Assembly, Vienna, 23-27 May, 2022
13. Anghel, Simon; Voiculescu, Mirela; Nedelcu, Dan, **Birlan, Mirel** - *Machine Learning Methods Applied to All-Sky Cloud Coverage Estimation*, AGU Fall Meeting 2021, New Orleans, 13-17 December 2021
14. Simon Anghel, Dan Alin Nedelcu, **Mirel Birlan**, Ioana Boacă, *Machine learning tools for meteor detection filtering*, Viewpoints in Astronomy, Astrophysics, Space and Planetary Sciences, 28-29 October 2021, Cluj, Romania
15. Ioana Boacă, Dan Alin Nedelcu, **Mirel Birlan**, Tudor Boaca, Simon Anghel, *Dark flight trajectory of meteoroids detected by the MOROI network*, Viewpoints in Astronomy, Astrophysics, Space and Planetary Sciences, 28-29 October 2021, Cluj, Romania
16. Mirela Mădălina Trelia, Dan Alin Nedelcu, Adrian Bruno Şonka, **Mirel Birlan**, *Determining the rotational properties for GEO satellites*, Viewpoints in Astronomy, Astrophysics, Space and Planetary Sciences, 28-29 October 2021, Cluj, Romania
17. Elisabetta Dotto, Marek Banaszkiewicz, Sara Banchi, Maria Antonietta Barucci, Fabrizio Bernardi, **Mirel Birlan**, Benoit Carry, Alberto Cellino, Julia De Léon, Monica Lazzarin, Elena Mazzotta Epifani, Anabel Mediavilla, Jaime Nomen Torres, Davide Perna, Ettore Perozzi, Petr Pravec, Colin Snodgrass, and Claudiu Teodorescu and the NEOROCKS team - *The EU Project NEOROCKS — NEO Rapid Observation, Characterization, and Key Simulations Project*, EPSC2021-114 |
18. Tetiana Hromakina, **Mirel Birlan**, Maria Antonietta Barucci, Marcello Fulchignoni, François Colas, Sonia Fornasier, Frédéric Merlin, Adrian Sonka, Elisabeta Petrescu, Davide Perna, and Elisabetta Dotto and the NEOROCKS team- *NEOROCKS project: results from photometric survey of Near-Earth objects*, EPSC2021
19. Dotto, E. ; Banaszkiewicz, M. ; Banchi, S. ; Barucci, M. A. ; Bernardi, F. ; **Birlan, M.** ; Carry, B. ; Cellino, A. ; De Leon, J. ; Lazzarin, M. ; Mazzotta Epifani, E. ; Nomen Torres, J. ; Perna, D. ; Perozzi, E. ; Pravec, P. ; Sanchez Ortis, N. ; Snodgrass, C. ; Teodorescu, C. - *The EU Project NEOROCKS — The NEO Rapid Observation, Characterization, and Key Simulations Project*, 52nd Lunar and Planetary Science Conference 2021 (online)
20. **M. Birlan**, A. Barucci, T. Hromakina, M. Fulchignoni, F. Colas, A. Sonka, E. Petrescu, S. Fornasier, and F. Merlin, - *Monitoring Near Earth Objects colors in the frame of NEORocks program*, Planetary Defense Conference 2021 (online)
21. **Simon Anghel**, I. Boacă, M. Birlan: *Photometry of all-sky cameras of MOROI network: how can we characterize a photometric night*, New horizons in space and planetary astrophysics. Honoring IAU 100, October 16-19, 2019, Bucarest, Romania
22. **Adrian Şonka**, M. Birlan, A. Gornea, I. Boian: *Minor planet photometry*, New horizons in space and planetary astrophysics. Honoring IAU 100, October 16-19, 2019, Bucarest, Romania
23. **Ioana Boacă**, S. Anghel, M. Trelia, D.A. Nedelcu, M. Birlan: *Astrometric reduction of the latest detections from the MOROI network*, New horizons in space and planetary astrophysics. Honoring IAU 100, October 16-19, 2019, Bucarest, Romania
24. S. Anghel, **M. Birlan**, D.A. Nedelcu, I. Boaca - *Photometry for MOROI network: a case study of atmospheric extinction*, Bucharest University Faculty of Physics 2019 Meeting, 21-22 June 2019
25. A. Sonka, **M. Birlan**, A. Gornea, I. Boian - *Physical parameters of Near Earth Asteroids*, Bucharest University Faculty of Physics 2019 Meeting, 21-22 June 2019
26. S. Jeanne, F. Colas, **M. Birlan**, J. Vaubaillon, S. Bouley, P. Vernazza, P. Hewins - *FRIPON network, first results and error estimation*, Meteoroids 2019, Bratislava, Slovakia, 17-21 June 2019
27. S. Anghel, D.A. Nedelcu, **M. Birlan**, I. Boaca, A. Sonka - *Photometry allsky cameras of MOROI network*, Bucharest Impacts and their role in the evolution of life, Tälberg, Suede, 10-13 June 2019,
28. Vaubaillon, A. Caillou, P. Deverchere, A. Cristou, C. Colmer, D. Zilkova, J. Laskar, D. Baratoux, P. Beck, **M. Birlan**, S. Bouley, B. Carry, F. Colas, L. Maquet, P. Vernazza - *The meteor automated light balloon experimental camera*, Meteoroids 2019, Bratislava, Slovakia, 17-21 June 2019
29. - *The current status of MOROI network. Astrometric reduction of multistation events and meteoroids orbits* - RECENT DEVELOPMENTS IN ASTRONOMY, ASTROPHYSICS, SPACE AND PLANETARY SCIENCES, 27-29 May 2019, Cluj-Napoca, Romania
30. A. ŞONKA, **M. Birlan**, A. GORNEA, I. BOIAN - *Photometry of selected NEA sample in Bucharest*, RECENT DEVELOPMENTS IN ASTRONOMY, ASTROPHYSICS, SPACE AND PLANETARY SCIENCES, 27-29 May 2019, Cluj-Napoca, Romania

31. **M. Birlan**, A. Sonka, D.A. Nedelcu, M. Balan, S. Anghel, C. Pandele, M. Trusculescu, C. Dragasanu, V. Plesca, C. H. Gandescu, C. Banica, T. Georgescu- *Optical asset on mobile platform* - RECENT DEVELOPMENTS IN ASTRONOMY, ASTROPHYSICS, SPACE AND PLANETARY SCIENCES, 27-29 May 2019, Cluj-Napoca, Romania
32. S. Anghel, D.A. Nedelcu, **M. Birlan**, I. Boaca - *Photometry of all-sky cameras: preliminary results for MOROI network*, RECENT DEVELOPMENTS IN ASTRONOMY, ASTROPHYSICS, SPACE AND PLANETARY SCIENCES, 27-29 May 2019, Cluj-Napoca, Romania
33. **M. Birlan**, A. Sonka, A. Nedelcu, F. Colas, V. Turcu, S. Anghel - *Near-Earth Asteroids Monitoring for Hazard Assessments*, 2019 IAAA Planetary Defense Conference, Washington-USA 29 April -3 May, 2019
34. F. Yoshida ... **M. Birlan**, ... et al, *Observation campaign of (3200) Phaeton and (155140) 2005 UD in 2017-2018*, PERC-IDP 2019, February 11-14, Chiba, Japon
35. Binzel R.P., DeMeo F., Morbidelli A, Carry B, Granvik M., Burbine T, Vernazza P., **Birlan M.** - *Near-Earth Asteroid and Meteorite Source Regions: The Big Picture*, American Astronomical Society, DPS meeting #50, id.105.03, 21-26 Oct 2018, Knoxville, Tennessee, USA
36. Marsset M., Vernazza P., Castillo-Rogez J., Rambaux N., Carry B., Hanus J., Viikinkoski M., Marchis F., Drouard A., ... **Birlan M.**,... - *Pallas's formation and internal structure: New insights from VLT/SPHERE*, American Astronomical Society, DPS meeting #50, id.404.07, 21-26 Oct 2018, Knoxville, Tennessee, USA
37. Marchis F., Viikinkoski M., Vernazza P., Hanus J., Marsset M., Drouard A.,... **Birlan M.**,... - *(16) Psyche: A Mesosiderite-like Asteroid With No Moons?* American Astronomical Society, DPS meeting #50, id.404.08, 21-26 Oct 2018, Knoxville, Tennessee, USA
38. Hanus J., Vernazza P., Viikinkoski M., Carry B., Marsset M., Marchis F.,... **Birlan M.**,... - *Deciphering the cratering record of (7) Iris*, American Astronomical Society, DPS meeting #50, id.404.06, 21-26 Oct 2018, Knoxville, Tennessee, USA
39. **P. Vernazza** M. Marsset, J. Hanus, B. Carry, M. Viikinkoski,..., **M. Birlan**,...: *ESO/VLT/SPHERE Survey of D>100km Asteroids (2017-2019): First Results*, EPSC2018, Berlin 16-21 September 2018
40. M. Marsset, **P. Vernazza**, J. Hanuš, M. Viikinkoski, B. Carry, A. Drouard, ..., **M. Birlan**,...: *New insights into Pallas' formation and collisional history from VLT/SPHERE and SOFIA/FORCAST* EPSC2018, Berlin 16-21 September 2018,
41. **F. Colas**, K. Baillié, S. Bouley, B. Zanda, J. Vaubaillon, S. Jeanne, A. Egal, P. Vernazza, J. Gattacceca, **M. Birlan**, D. Baratoux, S. Sylla,: *FRIPON and IMPACT projects to pinpoint interplanetary matter in the centimetre - hundred meter range*, EPSC2018, Berlin 16-21 September 2018
42. **M. Birlan**, A. Nedelcu, A. Sonka, B. Dumitru - *The mission V-type NEAs*, IAU GA 2018, 20-31 August 2018, Vienna, Austria.
43. N. Rambaux, D. Galayko, G. Guignan, J. Vaubaillon, L. Lacassagne, P. Keckhut, A.C. Levasseur-Regourd, A. Hauchecorne, **M. Birlan**, G. Augarde, S. Barnie et al - *METEORIX: a cubesat mission dedicated to the detection of meteors*, COSPAR 2018, 42nd Assembly, Pasadena July 14-22, 2018 USA.
44. B. Dumitru, **M. Birlan**, A. Sonka, F. Colas, A. Nedelcu - *Photometric observations of five asteroids at Pic du Midi*, Bucharest University, Faculty of Physics 2018 Meeting Atmosphere and Earth Science, 21-22 June, 2018
45. A. Sonka, **M. Birlan**, A. Gornea, S. Anghel - *The case of 2012 TC4*, Bucharest University, Faculty of Physics 2018 Meeting Atmosphere and Earth Science, 21-22 June, 2018
46. E. Petrescu, **M. Birlan**, A. Sonka - *Monitoring the Great Red Spot, the largest anti-cyclone in our Solar System*, Bucharest University, Faculty of Physics 2018 Meeting Atomic and Molecular Physics, Astrophysics: Applications, 21-22 June, 2018
47. **M. Birlan** - *Base de données spectrale pour les astéroïdes - 7^{ème} Journée ESEP - Bases de Données et Observatoires Virtuels*, Meudon 23 novembre 2017, France
48. J Vaubaillon, F. Colas, C. Marmo, S. Bouley, B. Zanda, **M. Birlan**, et al - *Survey of Meteorite Falls: The Fripon Project*, 9th IAASS Conference Known Safety, No Pain, Toulouse 18-20 octobre 2017, France
49. F. Marchis, P. Vernazza, J. Hanus, M. Marsset, B. Carry, T. Santana-Ros, **M. Birlan** - *New Insights on 216 Kleopatra Based on Images Collected with the SPHERE Extreme AO System*, AGU Fall meeting, New Orleans 11-15 decembre 2017, USA
50. F. Marchis, P. Vernazza, J. Hanus, M. Marsset, B. Carry, **M. Birlan**, T. Santana-Ros, B. Yang, - *A large program to derive shape, cratering history and density of the largest main-belt asteroids*, American Astronomical Society, 49th DPS meeting, 15-20 oct 2017, Provo, Utah, USA
51. J. Hanus, P. Vernazza, M. Marsset, F. Marchis, B. Carry, T. Santana-Ros, **M. Birlan**, M. Viikinkoski, J. Durech, M Kaasalainen - *Shape models of large asteroids based on disk-resolved images collected with SPHERE Extreme AO*, American Astronomical Society, 49th DPS meeting, 15-20 oct 2017, Provo, Utah, USA
52. P. Vernazza, F. Marchis, B. Carry, M. Marsset, J. Hanus, T. Santana-Ros, **M. Birlan**, C. Dumas, M. Viikinkoski, et al - *Asteroids as tracers of solar system formation: Probing the interior of primordial main belt asteroids*, European Planetary Science Congress 2017, 17-22 September 2017, Riga, Latvia
53. S. Erard, B. Cecconi, P. Le Sidaner, A. P. Rossi, B. Schmitt, B. Rousseau, F. Andrieu, M. Minin, V. Génot, J.-M. Glorian, and **M. Birlan** - *Spectroscopy of planetary surfaces in a VO context (VESPA)*, European Planetary Science Congress 2017, 17-22 September 2017, Riga, Latvia
54. B.A. Dumitru, **M. Birlan**, M. Dima - *Association between meteorites, meteor showers & Near-Earth Asteroids*, Bucharest University Faculty of Physics 2017 Meeting, Bucharest-Magurele, Romania, June 28, 2017;
55. **M. Birlan**, F. Colas, F. Cochard, B. Carry, P. Vernazza, S. Fornasier, D. Perna - *New concept of spectrograph for Near-Earth Asteroids*, Cluj Academic Days, Cluj Mai 29-30, 2017.
56. A. Nedelcu, **M. Birlan** - *Fast numerical integration of Solar System bodies orbits with precompiled positions*, Cluj Academic Days, Cluj Mai 29-30, 2017.
57. **M. Birlan** - *Asteroid families: diversity inside the small solar system body population*, Cluj Academic Days, Cluj Mai 29-30, 2017.

58. **M. Birlan**, F. Colas, F. Cochard, B. Carry, P. Vernazza, S. Fornasier, D. Perna - *Technics for observing asteroids: SOVAG instrument*, Asteroids, Comets, Meteors, Montevideo, Uruguay, 10-14 April 2017
59. M. Pajuelo, **M. Birlan**, B. Carry, F. DeMeo, M. Popescu, J. Berthier - *Spectral properties of binary asteroids*, Asteroids, Comets, Meteors, Montevideo, Uruguay, 10-14 April 2017
60. F. DeMeo, R.P. Binzel, S.J. Bus, D. Polishook, B. Burt, C.A. Thomas, N.A. Moskovitz, **M. Birlan**, A. Rivkin - *Spectral Properties of mission accessible NEOs*, Asteroids, Comets, Meteors, Montevideo, Uruguay, 10-14 April 2017
61. B. Dumitru, **M. Birlan**, M. Popescu, A. Sonka, A. Nedelcu - *Photometry & colors of NEAs at the origin of meteor showers*, IAC Winter School San Cristobal de La Laguna, in Tenerife (Canary Islands, Spain) in November, 7-16, 2016.
62. **M. Birlan**, M. Popescu, L. Irimiea, R. Binzel - *M4AST - a tool for asteroid modelling*, American Astronomical Society, DPS meeting #48, id.#325.17, Pasadena, USA, 16-20 oct 2016.
63. P. Vernazza, M. Marsset, P. Beck, R. Binzel, F. DeMeo, **M. Birlan**, et al - *C-complex asteroids: Two main compositional families?*, American Astronomical Society, DPS meeting #48, id.#510.06, Pasadena, USA, 16-20 oct 2016.
64. R. Binzel, F. DeMeo, T. Burbine, D. Polishook, **M. Birlan** - *Origins and asteroid main-belt stratigraphy for H, L, LL-chondrite meteorites*, American Astronomical Society, 2DPS meeting #48, id.#522.02, Pasadena, USA 16-20 oct 2016
65. B. Dumitru, **M. Birlan**, A. Nedelcu, M. Popescu - *Investigation of meteor shower parent bodies using various metrics*, Internantional Meteor Conference, Egmond, Netherland, 2-5 June 2016.
66. Colas F., Klotz A., Vachier F., **Birlan M.**, Sicardy B., Lecacheux J.: *The "Station de Planétologie des Pyrénées" (S2P), a collaborative science program in the course of a long history at Pic du Midi observatory*. EPSC2015-913, 27 Sept-2 Oct 2015, Nantes, France.
67. Colas F., Zanda B., Bouley S., Vaubaillon J., Marmo C., Audureau Y., Kwon M.K., Rault J.L., Caminade S., Vernazza P., Gattacceca J., **Birlan M.**, et al: - *FRIPON, the French fireball network*, EPSC2015-800, 27 Sept-2 Oct 2015, Nantes, France.
68. Le Sidaner P., Abouadarham J., **Birlan M.**, Briot D., Bonnin X., Cecconi B., Chauvin C., Erard S., Henry F., Lamy L. et al: - *Planetary Sciences Interoperability at VO Paris Data Centre* EPSC2015-765, 27 Sept-2 Oct 2015, Nantes, France.
69. Binzel R.P., DeMeo F. E., Burt B. J., Polishook D., Burbine T. H., Moskovitz N., Bus S. J., Tokunaga A., **Birlan M.**: *Main-Belt Source Regions for Potentially Hazardous Near-Earth Asteroids and Sample Return Targets*, American Astronomical Society, DPS meeting #47, #301.03, 2015
70. Vernazza P., Marsset M., Beck P., Binzel R., **Birlan M.**, Brunetto R., DeMeo F. et al: *Interplanetary Dust Particles As Samples of Icy Asteroids*, American Astronomical Society, DPS meeting #47, #106.12, 2015
71. Marsset M., Vernazza P., **Birlan M.**, DeMeo F., Binzel R.P., Dumas C., Milli J., Popescu M. *Compositional study of the Themis family*, American Astronomical Society, DPS meeting #47, #106.11, 2015
72. Colas F., Zanda B., Vaubaillon J., Bouley S., Marmo C., Audureau Y., Kwon M. K., Rault J.-L., Caminade S., **Birlan M.** et al: *French fireball network FRIPON* International Meteor Conference, Mistelbach, Austria, 27-30 August 2015
73. Georgescu T., Georgescu A., Pincu F., **Birlan M.**, Savastru D., Banica C., Dragasanu C.: *ROAN: A calibration unit for a meteor camera* Internantional Meteor Conference, Mistelbach, Austria, 27-30 August 2015
74. B.A. Dumitru, **M. Birlan**, M. Dima - *Determination of near earth objects associated with meteor streams based on their dynamic elements*, Bucharest University Faculty of Physics 2015 Meeting, Bucharest-Magurele, Romania, June 19, 2015;
75. **M. Birlan**, B. Dumitru, A. Nedelcu, A. Sonka, M. Popescu - *Observing Near-Earth Object: Results and Perspectives* Cluj Academic Days, Cluj-Romania, Mai 21-22, 2015.
76. **Birlan M.**, Dumitru B., Nedelcu A., Sonka A., Popescu M. - *Strategies for secure and recovery near-earth objects*, Planetary Defense Conference 2015 Frascati, Italy, 13-17 april 2015
77. Marsset M., Vernazza P., Gourgeot F., Dumas C., **Birlan M.**, Lamy P., Binzel R. P. - *Low and High Albedo Jovian Trojans and Hildas: A Similar or Different Origin?* 46th Lunar and Planetary Science Conference, in The Woodlands, Texas. LPI Contribution No. 1832, p.1860, March 16-20, 2015
78. O. Erece, Z. Eker, M. Kaplan, G. Aslan, **M. Birlan**: - *Turkish Facilities to meet Gaia Solar System TOO Observations*, Gaia-FUN-SSO-3, Paris Observatory, 24-26 November 2014, France
79. Z. Eker, **M. Birlan**, M. Kaplan, O. Erece, G. Aslan, M. Popescu, A. Nedelcu: - *Astrometry and Photometry of Karin Asteroid Family Members*, Gaia-FUN-SSO-3, Paris Observatory, 24-26 November 2014, France
80. T. Georgescu, **M. Birlan**, C. Leseanu, O. Ghita, C. Banica - *Evolution - ROAN 2014*, Internantional Meteor Conference, Giron 18-21 September 2014, France
81. F. Colas, B. Zanda, S. Bouley, J. Vaubaillon, P. Vernazza, J. Gattacceca, C. Marmo, Y. Audureau, M.-K. Kwon, L. Maquet, J.-L. Raul, **M. Birlan**, A. Egal, M. Rotaru, C. Birnbaum, F. Cochard, O. Thizy - *The FRIPON and Vigiel-Ciel networks*, Internantional Meteor Conference, Giron 18-21 September 2014, France
82. Y. Audureau, C. Marmo, S. Bouley, M.-K. Kwon, F. Colas, J. Vaubaillon, **M. Birlan**, B. Zanda, P. Vernazza, S. Caminade, J. Gattececa - *FreeTure, A Free software to capTure meteors for FRIPON*, Internantional Meteor Conference, Giron 18-21 September 2014, France
83. M.-K. Kwon, F. Colas, J. Vaubaillon, **M. Birlan**, B. Zanda, C. Marmo, S. Bouley, Y. Audureau, P. Vernazza, J. Gattacceca - *Astrometry with fish eye lens and orbit determination*, Internantional Meteor Conference, Giron 18-21 September 2014, France
84. N. Rambaux, D. Galayko, J.-F. Mariscal, M.-A. Breton, J. Vaubaillon, **M. Birlan**, F. Colas, T. Fouchet - *Detection of spectral UV of meteor from a nanosatellite*, Internantional Meteor Conference, Giron 18-21 September 2014, France
85. Binzel, R.P., DeMeo, F.E., Burt, B.J., Polishook, D., Burbine, T.H., Bus, S.J., Tokunaga, A., **Birlan, M.**: - *Meteorite Source Regions as Revealed by the Near-Earth Object Population*, DPS 2014, Tucson-AZ, BAAS #46, #213.06
86. Vaduvescu O., Hudin L., **Birlan M.**, Popescu M., Tudorica A., Toma R. - *Around 1500 near-Earth-asteroid orbits improved via EURONEAR*, Asteroids, Comets, Meteors 2014, Helsinki, June 30-July 4, 2014
87. **Birlan M.**, Popescu M., Nedelcu D.A. - *Taurid Complex reflectance spectroscopy*, Asteroids, Comets, Meteors 2014, Helsinki, June 30-July 4, 2014

88. Binzel, R.P., DeMeo F., Burt B., Polishook D., Burbine T., Bus S.J., Tokunaga A., **Birlan M.** - *Meteorite source regions as revealed by the near-Earth object population*, Asteroids, Comets, Meteors 2014, Helsinki, June 30-July 4, 2014
89. Marcq, E. Encrenaz, T., Lellouch, E., Bertaux, J-L., Widemann, T., **Birlan, M.** - *Measurements of carbon monoxide above Venus' cloud top from IRTF/CSHELL observations* EGU General Assembly 2014, in Vienna, Austria, id.6599, held 27 April - 2 May, 2014
90. Feller C.X.L., **Birlan M.**, Popescu M. - *Investigating S-Complex Type Asteroids with Lunar Samples and Meteorites Measurements*, Workshop on Planetary Formation and Differentiation, Proceedings of the conference held in Washington, DC. LPI Contribution No. 1768, p.8002, 27-29 October, 2013
91. Popescu M., Nedelcu A., **Birlan M.** - *Data reduction and interpretation of asteroids spectra* – Cosmical phenomena that affect Earth and their effects, Bucharest, 18 Oct 2013.
92. Oszkiewicz D., Kwiatkowski T., Tomov T., Pentilla A., **Birlan M.** - *Search for differentiated asteroid families* - Polish Astronomical Society meeting, 11-14 September 2013, Warsaw, Poland.
93. Vernazza P., Zanda B., Binzel R., Hiroi T., DeMeo F., **Birlan M.** et al - *Constraints on planetesimal formation from asteroid compositions*, American Astronomical Society, DPS meeting #45, #201.04, Reno, USA Oct 13-19, 013.
94. **Birlan M.**, Popescu M., Nedelcu D.A. - *Dynamical evolution and physical properties of six NEAs* – 2013 IAAA Planetary Defense Conference, Flagstaff-AZ, USA 15-19 April, 2013
95. **Birlan M.**, Popescu M., Nedelcu D.A. - *New spectral observations of five low DeltaV NEAs* – Astrobiological and cosmochemical implications of MarcoPolo-R sampling of a primitive asteroid, Barcelona 16-17 January 2013
96. **Birlan M.**, Popescu M., Vernazza P., Nedelcu D.A., Groussin O. - *Spectroscopy of Asteroid Pairs*, ACM2012, 14-19 May 2012, Niigata, Japan.
97. Vaduvescu O., Popescu M., Tudorica A., Conovici M., **Birlan M.**, Badescu T., et al. - *Data Mining the Suprimecam Archive for Near Earth Asteroids*, ACM2012, 14-19 May 2012, Niigata, Japan
98. Colas F., Zanda B., Vernazza P., Vaubaillon J., Bouley S., Gattacceca J., Baratoux D., **Birlan M.**, Cournede C., Fieni C. et al - *(FRIPON) Fireball Recovery and Interplanetary Matter Observation Network*, ACM2012, 14-19 May 2012, Niigata, Japan
99. Binzel R.P., DeMeo F.E., Lockhart M., Spivakovsky-Gonzalez P., Polishook D. Tokunaga A., Thomas C.A., Rivkin A.S., Bus S.J., **Birlan M.**, Vernazza P. - *Compositional Distribution of the Near-Earth Object Population*, ACM2012, 14-19 May 2012, Niigata, Japan
100. P. Vernazza, R.P. Binzel, F.E. DeMeo, and **M. Birlan** - *Formation location of S-type asteroids and OCs*, EPSC-DPS Meeting, Nantes 02-07 Oct 2011, FRANCE
101. **M. Birlan** and M. Popescu- *Modeling asteroid spectra: few examples*, EPSC-DPS Meeting, Nantes 02-07 Oct 2011, FRANCE
102. **M. Birlan** - *High Precision Astrometry and orbit improvements of possible targets of MarcoPolo-R*, MarcoPolo-R meeting, ESA-ESRIN –Frascati, Italy, 9-10 June 2011
103. **M. Birlan**, R. Binzel, M. Popescu, P. Vernazza, D.A. Nedelcu - *Spectral Properties of Near-Earth Asteroids*, 2011 IAAA Planetary Defense Conference, Bucharest-Romania 9-12 May, 2011.
104. M. Popescu, **M. Birlan** - *Modeling NEA spectra, a key to understand their physical properties*, 2011 IAAA Planetary Defense Conference, Bucharest-Romania 9-12 May, 2011.
105. O. Vaduvescu, **M. Birlan**, A. Tudorica, M. Popescu, A. Nedelcu, S. Sonka, J. Licandro - *The European Near Earth Asteroid Research (EURONEAR) - Status and Projects*, 2011 IAAA Planetary Defense Conference, Bucharest-Romania 9-12 May, 2011.
106. E. Turcu, M. Popescu, **M. Birlan** - *NEAs astrometry for secure orbits in Observatoire de Haute Provence : November 2010*, 2011 IAAA Planetary Defense Conference, Bucharest-Romania 9-12 May, 2011.
107. R. P. Binzel, F. E. DeMeo, M. Lockhart, A. Tokunaga, C. A. Thomas, A. S. Rivkin, S. J. Bus, **M. Birlan**, P. Vernazza, T. H. Burbine – *Spectral Reconnaissance for 200 Near-Earth Mission Targets*, 42nd LPSC, abstract 2226, 7-11 March 2011.
108. D. A. Nedelcu, **M. Birlan**, O. Badescu, P. Popescu, P. Paraschiv: *Asteroids differential astrometry in quasars fields. Events database and data reduction* - Modern Topics in Astronomy, 19 Nov 2010, Bucharest, Romania
109. **Mirel Birlan** – *V-type asteroids in the Main Belt* – Journées Scientifiques de l'IMCCE, 22-24 nov, 2010 Paris.
110. F. DeMeo, B. Carry, F. Marchis, **M. Birlan**, R. P. Binzel, S. J. Bus, P. Descamps, A. Nedelcu, H. Bouy, - (379) *Huenna's Satellite: A Chip Off The Block*, DPS 2010, Pasadena, BAAS #42, #39.19
111. **M. Birlan**, A. Nedelcu, P. Vernazza, R. Binzel, B. Carry, F. DeMeo, A. Barucci, M. Fulchignoni, - *21 Lutetia: Groundbased Near-infrared Spectroscopy Prior The Rosetta Flyby*, DPS 2010, Pasadena, BAAS #42, #46.04
112. **M. Birlan**, A. Kryszczyńska, F. Colas – *Multi-opposition spectroscopy of binary asteroid 809 Lundia*, Binaries in the Solar System II, Poznan, Poland, 13-15 July 2010
113. Binzel R.P. Morbidelli A. Merouane S. DeMeo F.E. **Birlan M.** Vernazza P. Thomas C.A. Rivkin A.S. Bus S.J. Tokunaga A.T. - *Good Vibrations: Recent Near-Earth Encounters as the Missing Piece of the S-Asteroid and Ordinary Chondrite Meteorite Puzzle*, 41st Lunar and Planetary Science Conference, March 1-5, 2010, No. 1533, p.1226
114. Barache Ch., Bouquillon S., Pavlin O., Taris F. Andrei A., Boer M., Laas M., Souhay J., Mignard F. **Birlan M.** - *GBOT tests at Observatoire de Haute Provence: Observations and software progress*, GBOG, November 17 & 18, 2009 - NICE, France
115. **M. Birlan**, R.P. Binzel, D.A. Nedelcu, P. Vernazza, M.A. Barucci, S. Gasc, M. Fulchignoni, E. Dotto, - *Physical Characterization of Asteroids Candidates of Marco Polo Mission*, DPS 2009, Porto Rico, BAAS #41, #35.08
116. R.P. Binzel, S. Merouane, F. DeMeo, **M. Birlan**, P. Vernazza, A. Morbidelli, C. Thomas, A. Rivkin, S.J. Bus, A. Tokunaga, - *Planetary Encounters as the Cause of Fresh Asteroid Surfaces*, DPS 2009, Porto Rico, BAAS #41, #53.01
117. C.A. Thomas, F.E. DeMeo, R.P. Binzel, S.J. Bus, A. Rivkin, A. Tokunaga, **M. Birlan**, P. Vernazza, - *Spectral Gallery of Low Delta-V Mission Targets*, International Symposium Marco Polo and other Small Body Sample Return Missions, Paris, France, 18-20 Mai 2009
118. **M. Birlan**, O. Vaduvescu, EURONEAR team – *Discovery, recovery, and precovery of NEAs as network activities*, 1st IAA Planetary Defense Conference, Granada, Spain, 26-30 April 2009

119. Tudorica . Toma R., Sonka A.B., Nedelcu A.D., **Birlan M.**, Vaduvescu O., EURONEAR team – *EURONER- The first 100 NEA's Observed*, DPS 2008, Cornell, NY, BAAS #40, #27.09
120. **M. Birlan**, D.A. Nedelcu, P. Descamps, J. Berthier, F. Marchis, S. Merouane - *Spectral investigation of binary asteroids*, DPS 2008 Cornell, NY, BAAS #40, #28.20
121. **M. Birlan**, D.A. Nedelcu, P. Vernazza, M.A. Barucci, R.P. Binzel, M. Fulchignoni – *Spectral properties of 2867 Steins and 21 Lutetia, the Rosetta mission targets* Asteroids Comets Meteors, Baltimore 13-18 July 2008
122. P. Vernazza, R.P. Binzel, A. Rossi, **M. Birlan**, S. Fornasier, M. Fulchignoni, S. Renner – *Physical Characterization of Very Young Asteroid Families* Asteroids Comets Meteors, , Baltimore 13-18 July 2008
123. R.P. Binzel, C.A. Thomas, A. Tokunaga, S.J. Bus, F.E. DeMeo, A.S. Rivkin, T.H. Burbine, P. Vernazza, **M. Birlan**, S.P. Storm, A. Springmann, M. Masterman – *Spectral properties of Near-Earth object mission target* Asteroids Comets Meteors, Baltimore 13-18 July 2008
124. J.-E. Arlot, V. Lainey, F. Colas, W. Thuillot, F. Vachier, **M. Birlan** - *Le système d'Uranus: astrométrie et observations de phénomènes*, Journées Scientifiques de l'IMCCE, 5-7 juin 2008
125. A. Nedelcu, J. Souchay, **M. Birlan**, P. Popescu, P. Paraschiv- *Asteroids astrometry as a link between ICRF and the Dynamical Reference Frames* IAU Symposium No.248 A Giant Step:from Milli- to Micro-arcsecond Astrometry Shanghai, China October 15-19, 2007
126. **M. Birlan**, P. Vernazza, A. Nedelcu - *NIR Spectroscopy of Nine M-type Asteroids*, DPS 2007, Orlando, FL, BAAS 39, #33.04
127. Binzel R.P., Rivkin A. S., Thomas C. A., Vernazza P., Burbine T.H., DeMeo F.E., Bus S.J., Tokunaga A.T., **Birlan, M.** - *Spectral Properties and Composition of Potentially Hazardous Asteroid (99942) Apophis*, DPS 2007, Orlando, FL, BAAS 39, #13.04
128. Sonka B. A., Vaduvescu O., **Birlan M.**, Nedelcu A., Colas F. - *New Astrometry for NEOs in the Frame of EuroNEAR*, DPS 2007, Orlando, FL, BAAS 39, #51.07
129. Vaduvescu, O., **Birlan, M.**, & Grigore, V., 2007 - *EURONEAR - The European Near Earth Asteroid Research*, IMC 2007, Barge, France
130. **M. Birlan** - *Mineralogy of 21 Lutetia, target of ROSETTA mission* - Observing Planetary Systems Conference, Santiago de Chile, 5-8 March 2007.
131. A. Kryszczyńska, F. Colas, M. Polinska, T. Kwiatkowski, **M. Birlan**, P. Bartczak, P. Descamps, 2007 - *809 Lundia ; new V-type synchronous binary asteroid in the Flora family*, First Workshop on Binaries in the Solar System 2007 August 20-23 Steamboat Springs, Colorado USA
132. A. Kryszczyńska, F. Colas, M. Polinska, T. Kwiatkowski., **M. Birlan**, P. Bartczak, P. Descamps, 2007 - *809 Lundia ; new V-type synchronous binary asteroid in the Flora family* XXXIII Zjazd Polskiego Towarzystwa Astronomicznego, Kielce, 17-21 IX 2007
133. P. Descamps, F. Marchis, J. Berthier, **M. Birlan**, F. Colas, F. Vachier – *2007 Mutual Events Within The Binary System of (22) Kalliope* - MEOTUS Workshop, Paris, 15-17 november 2006
134. F. Colas, **M. Birlan**, O. Vaduvescu, A. Nedelcu, A. Sonka - *EURONEAR - Oserving at Pic du Midi* – MEOTUS Workshop, Paris, 15-17 november 2006
135. **M. Birlan**, F. Colas, A. Nedelcu, P. Vernazza, A. Kryszczyńska - *Spectroscopy of binary asteroid 809 Lundia*, DPS Meeting, Pasadena, 8-12 october 2006
136. F. Colas, **M. Birlan**, O. Vaduvescu, A. Nedelcu, A. Sonka - *EURONEAR - First Results at Pic du Midi* - DPS Meeting, Pasadena, 8-12 october 2006
137. A. Nedelcu, **M. Birlan**, P. Vernazza, A. Barucci, M. Fulchignoni, R. Binzel – *Ground based science of 21 Lutetia* – DPS Meeting, Pasadena, 8-12 october 2006
138. **M. Birlan**, William Thuillot – *Remote observations technique; the CODAM achievements*, Nikolaiev Colloquium, Ukraine, 25-29 september 2006.
139. R. Brunetto, P. Vernazza, S. Marchi, **M. Birlan**, M. Fulchignoni, V. Orfino, G. Strazzula – *A spectral model for irradiated silicates: application to asteroid 832 Karin*, European Planetary Science Congress, Berlin, September 18-22, 2006.
140. P. Vernazza, **M. Birlan**, M. Fulchignoni - *Caractérisation physique de la famille de Karin* Programme National de Planetologie, Nancy, 12-13 september 2006
141. W. Thuillot, J. Berthier, A. Sarkissian, A. Mickaelian, L. Sargsyan, J. Iglesias, F. Vachier, V. Lainey, **M. Birlan**, G. Simon - *Caracterisation physique et dynamique d'asteroides grace à l'observatoire virtuel* – Programme National de Planetologie, Nancy, 12-13 september 2006
142. O. Vaduvescu, F. Colas, **M. Birlan**, A. Nedelcu, B. Szonka - *EURONEAR – An European Near Earth Asteroids Research Project*, IAU- GA, Symposium 236, Prague August 14-25 2006.
143. W. Thuillot, J. Berthier, A. Sarkissian, A. Mickaelian, L. Sargsyan, J. Iglesias, F. Vachier., **M. Birlan**, G. Simon – *Massive physical and dynamical characterization of asteroids*, IAU- GA, SPS3, Prague August 14-25 2006.
144. **M. Birlan** - *Traceurs des collisions dans la ceinture principale*, Journées Scientifiques de l'IMCCE, 5-7 juin 2006.
145. O. Vaduvescu, F. Colas, **M. Birlan**, A. Nedelcu, A. Sonka - *Near Earth Asteroids Observations at Pic du Midi*, Journées Scientifiques de l'IMCCE, 5-7 juin 2006.
146. J.-L. Simon, A. Fienga, **M. Birlan**, J. Normand, W. Thuillot – *La nouvelle Connaissance des Temps*, Journées Scientifiques de l'IMCCE, 5-7 juin 2006
147. Descamps P., Marchis F., Michalowski T., Vachier F., Colas F., Berthier J., Assafin M., Dunkel P.B., Polinska M., Pych W., Hestroffer D., Miller K., Vieira-Martins R., **Birlan M.**, Teng-Chuen-Yu J., Peyrot A., Payet B., Dorseuil J., Leonie Y., Dijoux T. – *Le système double d'Antiope*, Journées Scientifiques de l'IMCCE, 5-7 juin 2006
148. **M. Birlan**, A. Nedelcu - *Collisions history in the main-belt by spectroscopic methods* ESLAB-40,; First International Conference on Impact Cratering in the Solar System, ESTEC Noordwijk, 8-12 Mai 2006

149. E. Marcq, T. Encrenaz, B. Bézard, **M. Birlan** – *On the vertical profiles of CO, OCS and water vapour in the lower atmosphere of Venus using near IR spectro-imagery* - EGS v. 8, n. 04598, Vienna, 02-07 April 2006
150. E. Marcq, T. Encrenaz, B. Bézard, **M. Birlan** - *Near-IR Study of the Lower Atmosphere of Venus: Latitudinal Variations of CO, H₂O and OCS Vertical Profiles*. Chapman Conference Exploring Venus as a Terrestrial Planet Key Largo, Florida, USA 13-16 February 2006
151. **M. Birlan**, P. Vernazza, M.A. Barucci, M. Fulchignoni - *21 Lutetia spectral modeling of near-IR region* - DPS Annual Meeting, Cambridge-UK, 5-9 September 2005
152. P. Vernazza, M. Fulchignoni, **M. Birlan**, E. Dotto, A. Rossi, S. Fornasier, F. Marzari, D. Nesvorny - *Spectroscopic characterization of the Karin family* - DPS Annual Meeting, Cambridge-UK, 5-9 September 2005
153. D. Pascu, J.E. Arlot, V. Lainey, **M. Birlan**, V. Robert - *New observations of the Natural Planetary satellites through the Natural Satellites USNO Plates Archive* - DPS Annual Meeting, Cambridge-UK, 5-9 September 2005
154. M. Fulchignoni, M.A. Barucci, I.N. Belskaya, **M. Birlan** - *TNOs' taxonomy* – DPS Annual Meeting, Cambridge-UK, 5-9 September 2005
155. W. Thuillot, J. Berthier, F. Vachier, V. Lainey, J-E. Arlot, J. Vaubaillon, F. Colas, D. Hestroffer, S. Mouret, P. Descamps, **M. Birlan**, P. Rocher - *Caractérisation orbitale et physique des astéroïdes* - Ecole Thématique "L'Observatoire Virtuel: un outil de travail pour les scientifiques", 2005
156. E. Marcq, T. Encrenaz, B. Bézard, **M. Birlan** - *A Preliminary Work to Venus Express : Near IR Spectro-Imagery of the Lower Atmosphere* - DPS Annual Meeting, Cambridge-UK, 5-9 September 2005
157. **M. Birlan**, P. Vernazza, A. Barucci, M. Fulchignoni – *Near-IR spectra of 21 Lutetia, target of Rosetta mission*, Asteroids, Comets, Meteors 2005, Buzios – Bresil, 7-12 August, 2005
158. M. Fulchignoni, **M. Birlan**, E. Dotto, S. Fornasier, F. Marzari, D. Nesvorny, A. Rossi, P. Vernazza – *Spectroscopic characterization of the Karin family*, Asteroids, Comets, Meteors 2005, Buzios – Bresil, 7-12 August, 2005
159. P. Vernazza, M. Fulchignoni, **M. Birlan** – *Spectroscopic study of NEOs*, Asteroids, Comets, Meteors 2005, Buzios – Bresil, 7-12 August, 2005
160. P. Vernazza, T. Mothé-Diniz, M.A. Barucci, **M. Birlan**, J.M. Carvano, G. Strazzulla, M. Fulchignoni, A. Migliorini – *Analysis of near-IR spectra of 1 Ceres and 4 Vesta, targets of the Dawn Mission*, Asteroids, Comets, Meteors 2005, Buzios – Bresil, 7-12 August, 2005
161. P. Descamps, F. Marchis, T. Michalowski, J. Berthier, D. Hestroffer, F. Vachier, F. Colas, **M. Birlan**, R. Vieira Martins – *Insights on 90 Antiope double asteroid combining VLT-AO and Lightcurve Observations*, Asteroids, Comets, Meteors 2005, Buzios – Bresil, 7-12 August, 2005
162. **M. Birlan**, Gh. Vass, C. Teleanu – *Bringing forth the spirit of astronomy by using conceptual maps*, Communicating astronomy with the public 2005, Garching, 13-17 June 2005
163. **M. Birlan**, P. Vernazza, M. Fulchignoni, A. Rossi, E. Dotto, D. Nesvorny - *Near-IR spectroscopy of asteroids 832 Karin, 13807 1998 XE13, and 13765 Nansmith, members of Karin family* - DPS Annual Meeting P32.10, Louisville, KY, 8-12 November 2004
164. Gh Vass, **M. Birlan** - *Using conceptual maps in astronomy education* - DPS Annual Meeting P13.05, Louisville, KY, 8-12 November 2004
165. M. Fulchignoni, M.A. Barucci, S. Fornasier, E. Dotto, P. Vernazza, **M. Birlan**, J. Carvano, F. Merlin, I. Belskaya - *2867 Steins and 21 Lutetia: the Rosetta mission asteroid targets* - DPS Annual Meeting 28.03, Louisville, KY, 8-12 November 2004
166. E. Marcq, T. Encrenaz, B. Bézard, **M. Birlan** - *A Study of Lower Atmosphere Dynamics And Search For Active Volcanism On Venus : Preliminary Work To Venus Express Mission* - DPS Annual Meeting P39.03, Louisville, KY, 8-12 November 2004
167. W. Thuillot, J-E. Arlot, M. Stavinschi, **M. Birlan**, V. Lainey - *Ground-based astrometry at the time of the GAIA mission* Astrometry with Small Telescopes, Bucharest 20-22 October 2004.
168. F. Colas, J. Vaubaillon, **M. Birlan** - *Project of a 2 meter class telescope at Pic du Midi observatory* - Risks connected to a NEO impact, Chateau de Meudon, 13-14 september 2004
169. Gh Vass, **M. Birlan** – *Educational efficiency of observing astronomical phenomena: The case of planet Venus* ESOP 2004 Workshop Paris 27-29 August 2004.
170. Gh Vass, **M. Birlan** – *Apparently non-periodic astronomical phenomena: A systematic educational approach* ESOP 2004 Workshop Paris 27-29 August 2004.
171. P. Vernazza, M. Fulchignoni, **M. Birlan** - *Spectroscopic investigation of Near-Earth Objects* COSPAR Meeting, Paris, 18-25 July 2004.
172. **M. Birlan**, P. Vernazza, M.A. Barucci, M. Fulchignoni – *Spectroscopy of asteroids in remote observing mode with IRTF* COSPAR, Paris, 18-25 July 2004.
173. **M. Birlan**, M.A. Barucci, W. Thuillot – *Solar system observations by remote observing technique : useful experience for robotic telescope strategies*. Third Thinkshop concerning Robotic Telescopes, Potsdam, 12-15 July 2004
174. A. Merand, **M. Birlan**, V. Coudé du Foresto, R. Lelu de Brach - *Remote observations with FLUOR and the CHARA Array*, SPIE, Glasgow, 21-15 June 2004.
175. E. Marcq; T. Encrenaz; B. Bézard, **M. Birlan** - *Spectro-Imaging of Venus night side in preparation of the Venus Express mission : study of global dynamics and search for active volcanism*. EGU 1st General Assembly, Nice, 25-30 April 2004.
176. **M. Birlan** - *Le Centre d'Observation à Distance en Astronomie à Meudon(CODAM); Observations et résultats scientifiques obtenus avec l'IRTF*, Forum Bases, Traitements de Données et Observatoires Virtuels, Paris, 27-28 Novembre, 2003.
177. **M. Birlan**, Vernazza, P., Barucci M.A., Fulchignoni M., Binzel R.P., Bus S.J., Fornasier S. – *Near-IR spectroscopy of new asteroid targets for the Rosetta mission* - American Astronomical Society, DPS meeting, Monterey-California, 2-6 September 2003.
178. M. Fulchignoni, A. Delsanti, M.A. Barucci, **M. Birlan** - *Toward a taxonomy of the Edgeworth-Kuiper Belt Objects: the multivariate approach* - SF2A-2003: Semaine de l'Astrophysique Française, meeting held in Bordeaux, France, June 16-20, 2003.

179. M. Fulchignoni, A. Delsanti, M.A. Barucci, **M. Birlan** - *Multivariate analyses of TNOs spectrophotometric data* - First Decadal Review of the Edgeworth-Kuiper Belt: Towards New Frontiers, Antofagasta, Chile, March 11-14, 2003.
180. Th Encrenaz, B. Bezard, **M. Birlan**, C. de Bergh - *Observations of the Venus dark-side in the near-IR: A search for active volcanism and a study of dynamics* - Planetary Fourier Spectrometer General Meeting, Mars Express & Venus Express, Lecce, Italy, March 3-6, 2003.
181. **M. Birlan**, R. Binzel, S.J. Bus, A. Rivkin, A. Harris, A. Barucci, M. Fulchignoni - *From Mauna Kea to Meudon: IRTF Remote Observing Science Results for Potential Spacecraft Targets 4979 Otawara and 4660 Nereus* - American Astronomical Society, DPS meeting, Birmingham, Alabama, 2002.
182. S. Fornasier, Barucci M.A., Binzel R.P., **Birlan M.**, Fulchignoni M., Barbieri C., Bus S.J, Harris A.W., Rivkin A.S., Lazzarin M., Dotto E., Erikson A., Michalowsky T., Doressoundiram A., Bertini I., Peixinho N. - *Spectrophotometric observations of 4979 Otawara, target of the Rosetta space mission* - American Astronomical Society, DPS meeting, Birmingham, Alabama, 2002.
183. S. J. Bus, A. J. Denault, J. T. Rayner, R. P. Binzel, **M. Birlan** - *Remote observing at the NASA Infrared Telescope Facility (IRTF)* - SPIE Conference, Advanced Global Communications Technologies for Astronomy II, Hawaii, August, 2002.
184. **M. Birlan**, Richard Binzel - *Remote observation between IRTF-Hawaii and Observatoire de Meudon*, Global Hands-On Universe Conference, Paris, 2002.
185. S. Fornasier, M.A. Barucci, R.P. Binzel, M. Fulchignoni, **M. Birlan**, C. Barbieri, M. Lazzarin, A. Doressoundiram, E. Dotto, N. Peixinho - *A portrait of 4979 Otawara, target of the Rosetta space mission* Asteroids Comets Meteors, Berlin, 2002.
186. M. Fulchignoni, **M. Birlan**, M.A. Barucci - *TNO/Centaurs grouping tested with asteroid data sets* - American Astronomical Society, DPS meeting, New Orleans, 2001.
187. **M. Birlan**, J. Souhay, M. Birlan - *Science and Religion : the Faith* - Science & Religion, Romanian Academy Meeting, Bucharest 2001.
188. **M. Birlan** - *Asteroids density: an overview* - "Ceres 2001" Workshop IMCCE, Paris, 2001.
189. M. Fulchignoni, M.A. Barucci, A. Doressoundiram, J. Romon, **M. Birlan** - *Toward a Centaur/TNO taxonomy* - American Astronomical Society, DPS meeting, Pasadena, 2000.
190. **M. Birlan**, Gh. Bocsa - *Intermediate stars in extragalactic radio source fields; astrometric measurements* - IAU Colloquium 180, Washington, D. C., March, 2000.
191. Gh. Bocsa, **M. Birlan** - *Accuracy of Positions Determined within the Framework of CONFOR Programme* Scientific session of the Romanian Academy., Bucharest, 20-22 April 2000.
192. A. Doressoundiram, P. Weissman, M. Fulchignoni, M.A. Barucci, A. Le Bras, F. Colas, J. Lecacheux, **M. Birlan**, M. Lazzarin, S. Fornasier, E. Dotto, C. Barbieri, M. Sykes, S. Larson, C. Hergenrother - *4979 Otawara : the first asteroid target of the Rosetta mission* - Asteroids Comets Meteors, Ithaca 1999.
193. **M. Birlan** - *Asteroid photometric catalogues: a starting point to an asteroid taxonomy* - First romanian-russian meeting on astronomy, Sankt Ptersburg, 1998.
194. **M. Birlan** - *CCD photometry; results of the ESO asteroid campaign* - Scientific session of the Romanian Academy, Bucharest, 1997.
195. **M. Birlan**, M. Fulchignoni, M.A. Barucci - *The extension of the G-mode asteroid taxonomy* - Asteroids Comets Meteors , Versailles, 1996.
196. A. Doressoundiram, M.A. Barucci, M. Fulchignoni, **M. Birlan** - *Visible spectroscopy of EOS family* - Asteroids Comets Meteors, Versailles, 1996.
197. M. Roos-Serote, A. Barucci, J. Crovisier, P. Drossart, M. Fulchignoni, J. Lecacheux, and F. Roques, **M. Birlan** - *Atomic line emissions in the impacts of comet SL9 into Jupiter* - SL9 Colloquium, Baltimore, USA, 1995.
198. **M. Birlan**, M. Fulchignoni, M.A. Barucci - *Influence of the revised IRAS albedos on the G-mode asteroid taxonomy* - D.P.S. meeting Mauna Lani, October 1995.
199. **M. Birlan**, M.A. Barucci, J. Crovisier, P. Drossart, M. Fulchignoni, J. Lecacheux, M. Roos-Serote, F. Roques - *Atomic line emissions in the plume and splashback of Shoemaker-Levy 9 impact L on Jupiter* - D.P.S. meeting Mauna Lani, October 1995.
200. **M. Birlan**, M.A. Barucci, M. Fulchignoni - *G-mode analysis of the reflection spectra for 85 asteroids* - European Geophysical Society-General Assembly, Grenoble, 1994.
201. O. Vaduvescu, **M. Birlan** - *Software package for preparing and processing of an astronomical observation - CELESTIAL MAPS version 4.5* - Second international school in astronomy and astrophysics, Rozen, Bulgaria, 1994.
202. **M. Birlan**, M. Fulchignoni, M.A. Barucci - *Extension of the G-mode method* - Symposium of the small bodies of the Solar System and their interrelation, Uppsala, Sweden, 1994.
203. **M. Birlan**, M.A. Barucci, M. Fulchignoni - *An extension of the Barucci's asteroid taxonomy* - Department of Planetary Science session, Minneapolis, 1994.
204. **M. Birlan** - *Mineralogy of S-type asteroids* - Scientific session of the Romanian Academy, Bucharest, 1994.
205. **M. Birlan** - *Lightcurves statistics a classification of asteroids* - European Geophysical Society-General Assembly, 1993.
206. **M. Birlan**, Gh. Bocsa - *Astrometrical measurements of minor planets in 1991-1992* - Asteroids, Comets, Meteors, 160-th I.A.U. Symposium, Belgirate, Italy, 1993.
207. **M. Birlan** - *Statistical study for Trojan asteroid groups* - Scientific session of the Romanian Academy, Iasi, 1993.
208. **M. Birlan** - *On the physical and dynamics properties of asteroids* - 30-th Astronomical Colloquium, Liege, Belgium, 1992.
209. O. Vaduvescu, **M. Birlan** - *Celestial maps in Turbo Pascal 6.0* - Scientific session of the Romanian Academy - Cluj, 1992.
210. **M. Birlan**, O. Vaduvescu - *Computer image reconstruction* - Scientific session of the Romanian Academy - Bucharest, 1992.

Conferinte cu publicul larg si seminarii

1. 29 septembrie 2023
Astronomia asteroizilor; aspectul si structura lor interna
Conferinta sustinuta la Observatorul Astronomic din Iasi, cu ocazia redeschiderii acestui observator
2. 26 noiembrie 2022
Istoria explorarii planetei Marte
Conferinta Romanian Youth Space Conference, 25-27 noiembrie 2022
3. 16 mars 2021
Meteor, meteoroids, and their parent bodies
Public talk, Stardust-R technical school, Iasi, Romania
4. 27 janvier 2021
Fripon, meteor statistics from database
Séminaire web à l'Institut Astronomique de l'Académie Roumaine
5. 25 septembre 2020
Observatoire de Paris – plus de 350 d’astronomie
Conference grand public (web) pour Bucharest Science Festival
6. 15 mai 2020
Cum alergam dupa asteroizi in cercetarea spatiala
Conference grand public (web) dans le cycle ESERO - ESA
7. 20 avril 2020
Asteroizii si confinarea
Presentation webex pour des eleves de lycee Complexul Educational Laude-Reut de Bucarest
8. 22 janvier 2020
Highlighted science in the frame of HARISSA science
Séminaire à l'Instituto de Astrofísica de Canarias, Tenerife, Espagne
9. 7 janvier 2020
La nouvelle marche vers la Lune
Conférence grand public dans la salle Jacques Brel à Montigny-le-Bretonneux
10. 14 octobre 2019
Introducere in lumea asteroizilor
presentation de livre et dialog avec le publique, à Giurgiu, en Roumanie
11. 27 juillet 2019
Misiuni spatiale de cercetare a asteroizilor
Conférence grand public au Grand Planetarium de Slanic Prahova, en Roumaine
12. 25 mai 2019
Asteroizii si viata pe Terra
Conférence grand public au Complexe museal de la ville de Barlad, en Roumaine
13. 24 mai 2019
Enigmele asteroizilor
Conférence grand public au Complexe museal Galati en Roumaine
14. 6 mars 2019
Les distances dans l’Univers
Conférence grand public au club Circuit à Paris;
15. 7 mars 2018
La recherche de la vie dans l’Univers
Conférence grand public au club Circuit à Paris;
16. 20 septembre 2017
New spectrograph for Near Earth Asteroids in Pic du Midi Observatory: technical requirements and design
Séminaire à l'Institut Astronomique de l'Académie Roumaine
17. 20 septembre 2017
SOVAG - nouveau spectrographe pour l'Observatoire du Pic du Midi,
Conférences à l'Astroclub Vasile Urseanu, Bucarest en Roumanie;

18. 13 et 15 mars 2017

Les objectifs scientifiques des missions spatiales vers les astéroïdes

Conférences à l'Astroclub Vasile Urseanu, Bucarest en Roumanie;

19. 4 mai 2016

4 mai 2016: *Les prouesses de la conquête spatiale en 2015* Conference for club Circuit in Paris;

21 mars 2016: *Physics of PHAs 2007 PA8 and 2004 BL86 using groundbased observations*

Séminaire Temps-Espace à l'Observatoire de Paris

20. 29 janvier 2016: *M4AST : On-line tool for spectral modeling of asteroids* Séminaire à l'Observatoire de Strasbourg,

21. 28 octobre 2015 - *Meteor: un projet éducationnel de nanosat* Conférence grand public à l'Astroclub Vasile Urseanu, Bucarest, Roumanie

22. 11 octobre 2014- *Astéroïdes et géocroiseurs : source des météorites – Observations des météores* Conference l'Uranoscope, Gretz-Armainvilliers, France

23. 2 octobre 2014 - *Objets du système solaire à l'origine des courants des météores –* Conference « Urania », Bucharest-Romania

24. 1 octobre 2014 - *Asteroids as sources of meteor showers* - Seminar Astronomical Institute Romanian Academy, Bucharest-Romania

25. 21 December 2013 – *FRIPON project – monitor the meteors over France*, Seminar in Meudon Observatory, France

26. 19 March 2013 - *Physical ephemerides and spectroscopy of asteroids* Seminar in Akdeniz University, Turkey

27. 18 September 2012 - *Near-Earth Asteroids : space alteration into spectral data* Seminar Institute for Space Science, Bucharest-Magurele, Romania.

28. 23 September 2011 - *Near-Earth Asteroids Population :classification, spectra and space weathering mechanisms*, Seminar into the Institute of Geodynamics of the Romanian Academy, Bucharest, Romania

29. 19 September 2011 - *Near-Earth Asteroids Population : spectral alteration by space weathering mechanisms* – Seminar in Astronomical Observatory of Cluj-Napoca, Babes-Bolyai University, Romania

30. 11 mars 2011 - *21 Lutetia: groundbased near-infrared spectroscopy* Seminar, Laboratoire d'Astrophysique de Marseille, France

31. *Space weathering mechanisms insight Near-Earth Objects*, in Isaac Newton Groupe of Telescopes, La Palma, Spain (24 mai 2010)

32. *Les asteroids*, in CSNSM, Université d'Orsay, France (1 avril 2010)

33. *Les géocroiseurs : c'est frais mais c'est pas grave*, Université de Nantes, France (5 mars 2010)

34. *Techniques d'observations des corps dans atmosphère du système solaire*, in University « Stefan cel Mare », Suceava, Roumanie (27 octobre 2009)

35. *Spectroscopy of asteroids and Physical ephemerides* in ESTEC Noordwijk, Holland (5 Juin 2009)

36. *Physical ephemerides and spectroscopy of asteroids* in Brockport University, State of New-York, Etats-Unis (16 October 2008)

37. *Physical properties and surface composition of asteroids* Conference in Universita Catolica del Norte, Antofagasta, Chili (19 March 2008)

38. *Spectroscopie en infra-rouge proche avec l'IRTF*, in l'Observatoire de la Côte d'Azur (8 January 2007)

39. *The Pluto system and the New Horizons science objectives*, Seminar in the Atomic and Nuclear Physics Department - Astrophysics Laboratory Université de Bucarest, Roumanie(24 Octobre 2006)

40. *Etude du système solaire par des missions spatiales européennes: présent et perspectives*, Public conference Les 24 heures basiliennes d'astronomie, Lillle, France (5 février 2006)

41. *L'observation à distance en infra-rouge proche des corps du système solaire* talk for the « Ecole thématique CNRS : Nouvelles techniques d'observation et bases de données : apports en astrométrie et mécanique céleste », 21-25 mars 2005, Gars, France (22, 23 mars 2005)

42. *Missions spatiales européennes pour l'étude du système solaire, présent et perspectives* Public conference during the « Semaine des sciences - Bucarest, Iasi, Timisoara », 18 - 23 april 2005, Roumanie (19 avril 2005).
43. *Near-IR (0.8-4.4 micron) spectroscopy of solar system bodies using remote observing: CODAM project*, Seminar in the Department of Physics and Astronomy, University of York, Canada (5 november 2004)
44. *Venus transit and its importance* Public lecture, French Embassy in Romania(12 mai 2004)
45. *L'importance éducationnelle des observations liées à la planète Venus*, Séminaire Temps-Espace, salle de l'Atelier, Observatoire de Paris, France (30 avril 2004)
46. *Rosetta Mission and Ground-Based Science of Asteroid Targets* Seminar in the Atomic and Nuclear Physics Department - Astrophysics Laboratory University of Bucharest, Romania (1 April 2004)
47. *Le Projet CODAM : spectroscopie en IR proche avec l'IRTF* Seminar Temps-Espace, salle de l'Atelier, Observatoire de Paris, France (March 2004)
48. *Remote observing technique ; first tests from Meudon* Conference in The Astronomical Institute of the Romanian Academy, Bucharest, Romania, April 2002
49. *Trans-Neptunian Objects and the early solar system formation* Talk in the Romanian Space Agency, Bucharest, Romania, February 1999
50. *Physics of asteroids potential targets of Rosetta mission ; observational approach* Talk in the Romanian Space Agency, Bucharest, Romania, February 1999
51. *Taxonomy of asteroids* Talk in the Institut de Mécanique Céleste et de Calcul des Ephémérides Salle de l'atelier, Paris, France November 1996

JURY DE THESES, HABILITATIONS ET COMMISSION DE CONCOURS :

- Membre de la Commission de presoutenance de these de Gabriela Nadabaica Uuniversitatea Alexandru Ioan Cuza Iasi, 16 aout 2025.
- Membre de la Commission de recrutement de Gabriela Blaga pour un poste de CSII a l'Observatoire de Cluj-Napoca, 7 juillet 2023.
- Membre de la Commission de recrutement de Bogdan Antonescu pour un poste de Maitre des Conférences (Lector universitar) à l'Université de Bucarest, Faculte de Physique, mai 2023.
- Membre de la Commission de recrutement du poste de directeur pour l'Institut des Mathematiques de l'Academie Roumaine, Filiale de Cluj-Napoca, mai 2023.
- Membre de la Commission de recrutement de Nicolina Pop pour un poste de professeur des universites a l'Universite Politehnica de Timisoara, 7 juillet 2021.
- Rapporteur HDR « *Evolution des petits corps glaces du système solaire* » par Aurelie Guilbert-Lepoutre, Université Lyon I, France, le 9 decembre 2019
- Rapporteur HDR « *Le petits corps du système solaire* » par Benoît Carry, Observatoire de la Côte d'Azur, France, le 6 juin 2018
- Membre de la Commission de validation des diplômes pour le poste de Maitre de Conférences 34/003/4451 en 2018, de l'Université de Besançon
- Membre de la Commission de recrutement d'Octavian Badescu pour un poste d'astronome à l'Institut Astronomique de l'Académie Roumaine, 31 mai 2017.
- Examineur HDR « *Dwarf galaxies and Near Earth Asteroids* » par Ovidiu Vaduvescu, Université de Craiova, Roumanie le 23 septembre 2016
- Examineur HDR « *Composition of solar system small bodies* » par Pierre Vernazza du Laboratoire d'Astrophysique de Marseille, le 17 mai 2016.
- Membre du Comité de suivi de la these de William Polycarpe, Ecole Doctorale d'Ile de France (entre 2016 et 2018).
- Président de la Commission de recrutement d'Alin Nedelcu pour un poste d'astronome à l'Institut Astronomique de l'Académie Roumaine, 2 decembre 2015.
- Examineur, thèse « *First science with JouFLU* » par Nick Scott de l'Université d'Atlanta, USA, 30 Octobre 2015.
- Membre de la Commission d'allocation des prix d'excellence de l'association scientifique Ad-Astra 2014.
- Membre de la Commission de recrutement de Mihai Dima et Cristian Panaiotu au titre des Professeurs d'Université, Faculté de Physique, Université de Bucarest, Roumanie, en Février 2014.
- Examineur HDR « *Modes of climate variability and their role on present and past climate variability and predictability* » par Norel Rambou de l'Université de Bucarest, Faculte de Physique, le 5 juillet 2013.
- Examineur HDR « *Modes of climate variability* » par Mihai Dima de l'Université de Bucarest, Faculté de Physique, le 10 juin 2013.
- Examineur HDR « *Diode-pumped solid state lasers with improved output characteristics* » par Nicolae Pavel de l'Institut National de la Physique des Lasers, Plasma et appareillages à Radiations, le 10 juin 2013.
- Examineur, thèse « *Etude dynamique et observationnelle des astéroïdes de la ceinture principale* » par Damya Souami, à l'Université Pierre et Marie Curie, le 7 Décembre 2012.
- Examineur HDR « *Caractérisation physico-chimique des petits corps du Système Solaire* » par Sonia Fornasier, à l'Université Paris 7, le 25 mai 2012.
- Rapporteur sur le dossier de Professeur d'Université pour Dr Beth Clark de Ithaca College, NY, USA, juin 2012.
- Rapporteur, thèse « *Traitement d'images pour l'analyse des petits corps du système solaire* », par Olivier Laurent, Université de Franche-Comté, decembre 2008