B2. Curriculum vitae

Lucia Aurelia Popa

Institute for Space Sciences (ISS), Bucharest-Magurele, Ro-077125, Romania

E-mail:lpopa@spacescience.ro

Education:

-University of Bucharest; PhD student, 1985 – 1990

-University of Bucharest; graduate student, 1980 – 1981

-University of Bucharest; undergraduate student, 1976 – 1980 .

Degrees and Diplomas:

-PhD in Physics, University of Bucharest, 1990

Thesis: *Multiquark clusterization effects in relativistic hadron-hadron interaction,* 1990

-MSc in Physics, University of Bucharest, 1981

Thesis: *Derivation of the geometric characteristics of hadronic distribution inside nuclei from hadron-nucleus cross section data*

-Diploma in Physics, University of Bucharest, 1980

Thesis: *A model for hadron-nucleus interactions at intermediate and high energies,*1880 -

Foreign languages: English, French, Italian

Present position:

-Senior Researcher I, Institute for Space Sciences, Bucharest, Romania, 2001-present

Previous positions:

-Associate researcher at the National Institute for Astrophysics, Istitute for Space Astrophysics and Cosmic Physics (INAF/IASF) Bologna, 2002-2006

-Senior Researcher II, Institute for Space Sciences, Bucharest, 1999-2000

-Senior Researcher III, Institute for Space Sciences, Bucharest, 1993-1998

-Researcher, Institute for Space Sciences, Bucharest, 1986-1992

-Research Assistant, Institute of Physics and Nuclear Engineering , Bucharest, 1983-1986

-Physics teacher, High School no.1, Mangalia, 1981-1983

Research interests: astrophyscis, cosmology, particle physics, general relativity

Research stages abroad:

-INAF/IASF Bologna, 2002-2006

-INAF/IASF Bologna, yearly research stages of 2-3 months, 1996-2002

-University La Sapienza, Roma, yearly research stages of 3 months, 1994-1995

-University of Cantabria, Santander, yearly research stages of 3 months, 1993-1995

-IUCN Dubna, yearly research stages of 3 months, 1981-1990

Activities:

- Romanian representative in Euclid mission Consortium Board, 2012-present
- Member of ESA Observing Time Allocation Committee for Cosmology, Extragalactic Deep Fields and Area Surveys, 2011
- Co-proposer of Euclid, mission selected by ESA for Cosmic Vision Program (2015-2025), 2011
- Co-proposer of the Cosmics Origin Explorer (CoRE),selected by ESA for design study phase, 2011 -Co-author of the CMBPol mission concept study White Papers
- Member of Core team Planck mission, 2006-present
- Reviewer for New Astronomy, Astropart. Phys., Int. Jour. of Modern Phys., Rom. Rep. Phys
- Project evaluator for the national research program, 2007- present
- Planck Scientist, 2005-present
- Member of European Physical Society and Romanian Physical Society, 1990
- Currently coordinated PhD students: Ana Caramete, Daniel Tonoiu
- MSc Thesis Students: Ruxandra Toma (2009), Alexandru Tudorica (Bucharest ,2010), Pier Paolo Ponente(Bologna, 2006), Monica Hasegan (Bucharest, 2002)

Invited Talks:

- *An overview of the Euclid Mission*: Conference on Testing Gravity with Astrophysical and Cosmological Measurements, Kashiwa, Japan, 2012
- *Higgs Inflation:* Planck-LFI Consortium Meeting, Bologna, 2010
- *Cosmological Perturbations in Generalized Theories of Gravity*, Carpathian Summer School of Physics, Sinaia, 2010
- *Planck Mission-Scientific Expectations*: ANTARES General Collaboration Meeting, Sinaia, 2008
- *Probing Neutrino Properties with the Planck Mission:* Aspen Center for Physics, 2008
- *Leptonic and baryonic asimmetries :* Carpathian Summer School of Physics, Sinaia, 2007
- *Probing cosmic dark ages of the Universe with CMB*: Eleventh Marcel Grossmann Meeting on General Relativity, Berlin, 2006
- *Cosmological Implications of Massive Neutrinos*, NATO A.W.R.: Cosmic Radiation, Oujda, 2002
- *Properties of the Far-Infrared Background*:Moriond Conference on Fundamental Parameters in Cosmology, Les Arcs, France, 1998
- *Formation of di-quark plasma in relativistic collisions*, Particles & Nuclei, Perugia, 1993

List of Publications : in Annex Research ID: http://www.researcherid.com/rid/B-4718-2012

Total no. of publications: 95

Papers in referenced journals: 45; 22 as first author

Relative impact factor as first author: 22.8 Total number of citations: 788; H-index: 15

Annex **List of publications**

Lucia Aurelia Popa

1. Papers published in journals with referees

[1.46] Aghanim, N.,...,**Popa, L.A. et al.** (Planck Collaboration), **Planck Intermediate Results II: Comparison of Sunyaev-Zeldovich measurements from Planck and from the Arcminute Microkelvin Imager for 11 galaxy clusters** (2012) [arXiv:1204.1318]-in printing

[1.45] Aghanim, N.,...,**Popa, L.A. et al.** (Planck Collaboration), **Planck Intermediate Results. I. Further validation of new Planck clusters with XMM-Newton,** Astronomy & Astrophysics (2012) [arXiv:1112.5595] – in printing

[1.44] Aghanim, N.,...,**Popa, L.A. et al.** (Planck Collaboration), **Planck early results. XXVI. Detection with Planck and confirmation by XMM-Newton of PLCK G266.6-27.3, an exceptionally X-ray luminous and massive galaxy cluster at z ~ 1,** Astronomy & Astrophysics, Volume 536, 26 (2011)

[1.43] Ade, P.A.,...,**Popa, L.A. et al.** (Planck Collaboration), **Planck early results. I. The Planck mission,** Astronomy & Astrophysics, Volume 536, 1 (2011).

[1.42] **Popa, L.A., Observational consequences of the standard model Higgs inflation variants,** Journal of Cosmology and Astroparticle Physics, Issue 10, pp. 025 (2011).

[1.41] Tonoiu, D., Caramete, A., Popa, L. A., **Lookback time and Chandra constrains on cosmological parameters** Romanian Reports in Physics, Vol. 63, No. 3, pp. 879–889 (2011).

[1.40] **Popa, L. A.,** Caramete, A., **Cosmological Constraints on the Higgs Boson Mass,** The Astrophysical Journal, Volume 723, Issue 1, pp. 803-811 (2010).

[1.39] Mandolesi, N.,..., **Popa, L.A**. et al. (Planck Collaboration), **Planck pre-launch status: The Planck-LFI programme,** Astronomy and Astrophysics, Volume 520, id.A3 (2010).

[1.38] Tauber, J., ..., **Popa L.A**., et al. (Planck Collaboration), **Planck pre-launch status: The Planck-LFI programme,** Astronomy and Astrophysics, Volume 520, id.A1 (2010).

[1.37] Stefanescu,P., **Popa**, **L.A. Integrated Sachs-Wolfe effect in cross-corelation with galaxy samples -a reliable independent probe for cosmology**, Rom. Rep. Phys. Vol.62, pp. 887–896 (2010).

[1.36] **Popa, L. A.**, Mandolesi, N., Caramete, A., Burigana, C., **From WMAP to Planck: Exact Reconstruction of Inflationary Potential from High-precision Cosmic Microwave Background Measurements,** The Astrophysical Journal, Volume 706, Issue 2, pp. 1008-1019 (2009).

[1.35] Cimatti, A.,..., **Popa, L. A.** et al. (SPACE Collaboration), **SPACE: the spectroscopic all-sky cosmic explorer,** Experimental Astronomy, Volume 23, Issue 1, pp.39-66 (2009).

[1.34] Stefanescu, P., **Popa L.A.**, Vasile, A., **Foregrounds contamination in CMB polarization data: implications for CMB B-mode polarization,** Rom. Rep. Phys. Vol. 61, pp. 523–530 (2009).

[1.33] **Popa, L. A.**, Stefanescu, P., Vasile, A., **Constraints on the lepton asymmetry and radiation energy density: Implications for Planck**, Rom. Rep. Phys. Vol. 61**,** pp. 531–545 (2009).

[1.32] **Popa, L. A.**, Vasile, A.,**WMAP five-year constraints on lepton asymmetry and radiation energy density,** Journal of Cosmology and Astroparticle Physics 06, 028 (2008).

[1.31] Burigana, C., **Popa, L. A.**, Salvaterra, R., Schneider, R., Choudhury, T. R., Ferrara, A., **Cosmic microwave background polarization constraints on radiative feedback**, Monthly Notices of the Royal Astronomical Society, Vol. 385, pp. 404-410 (2008).

[1.30] Schneider, R., Salvaterra, R., Choudhury, T. R., Ferrara, A., Burigana, C., **Popa, L. A.**, **Detectable signatures of cosmic radiative feedback**, Monthly Notices of the Royal Astronomical Society, Vol. 384, pp. 1525-1532 (2008).

[1.29] **Popa, L. A.**, Vasile, A., **Constraints on non-thermal dark matter from PLANCK lensing extraction,** Journal of Cosmology and Astroparticle Physics, Issue 10, pp. 017 (2007).

[1.28] **Popa, L. A**. et al., **PLANCK-LFI scientific goals: Implications for the reionization history,** New Astronomy Rev., Vol. 51, pp. 298-304 (2007).

[1.27] Valenziano, L.,...,**Popa, L.A.** et al., **Low frequency instrument on-board the Planck satellite: Characteristics and performance**, New Astronomy Rev.,Vol.51, pp. 287-297 (2007).

[1.26] Terenzi, L.,..., **Popa, L.A**. et al., **The Planck LFI RCA flight model test campaign,** New Astronomy Review, Volume 51, pp. 305-309 (2007).

[1.25] P**opa, L. A.**, Burigana, C., Mandolesi, N., **Radiative effects by high-z UV radiation background: Implications for the future CMB polarization measurements,** New Astronomy, Volume 11, pp. 173-184 (2005).

[1.24] **Popa, L. A.**, Burigana, C., Mandolesi, N., **Cosmological reionization after WMAP: perspectives from PLANCK and future CMB missions,** Nuclear Physics B Supplement, Volume 143, pp. 563-563 (2005).

[1.23] **Popa, L. A.**, Burigana, C., Mandolesi, N., **Nonlinear evolution of the cosmological background density field as diagnostic of the cosmological reionization**, New Astronomy, Volume 9, Issue 3, p. 189-203 (2004).

[1.21] **Popa, L.A.**, Burigana, C., Mandolesi, N., **Signature of HDM clustering at Planck angular scales**, Journal of High Energy Physics, Volume 32, pp. 321 – 333 (2003).

[1.20] **Popa, L. A.**, Burigana, C., Mandolesi, N**., Dynamical Effects of the Neutrino Gravitational Clustering at Planck Angular Scales,** The Astrophysical Journal,Volume 580 16-28 (2002).

[1.19] **Popa, L. A.**, Burigana, C., Mandolesi, N., **Cosmological Parameter Determination from Planck and Sloan Digital Sky Survey Data in Λ Cold+Hot Dark Matter Cosmologies,** The Astrophysical Journal, Volume 558, pp. 10-22 (2001).

[1.18] **Popa, L.A.**, Burigana, C., Finelli, F., Mandolesi, N., **On the detection of neutrino oscillations with Planck surveyor,** Astronomy and Astrophysics, v.363, p.825-836 (2000).

[1.17] **Popa, L.A.**, Stefanescu,P., Fabri, R., **Genus statistics on CMB polarization maps and cosmological parameter degeneracy,** New Astronomy, Vol. 4, Issue 1, pp. 59-70 (1999).

[1.16] **Popa, L.A.**, Vaman, C., **The wavelet versus Fourier inversion techniques for reconstruction of the CMB maps,** Rom. J. Phys., Vol. 44, No. 3 - 4, p. 475 – 483 (1999).

[1.15] **Popa, L.A.**, **Power fluctuations in the wavelet space: large-scale CMB non-gaussian statistics,** New Astronomy, Volume 3, Issue 7, pp. 563-570 (1998).

[1.14] **Popa, L.A.**, Burigana, C, **Correlation properties of the diffuse light from COBE-FIRAS maps,** Astronomy and Astrophysics, Volume 334, pp. 420-426 (1998).

[1.13] Melchiorri, F**., Popa, L.A**., Stefanescu, P., **Large Scale clustering of the Cosmic Extragalactic Background,** Balk. Phys. Lett., Volume 6, No. 2, pp. 86 - 91 (1998)

[1.12] **Popa, L.A.**, Stefanescu, P., **Dust correlations evidenced by COBE-FIRAS data**, Balk. Phys. Lett., Volume 6, No. 2, pp. 73 - 99 (1998)

[1.11] **Popa, L.A**., Hasegan, M., Stefanescu, P., **Comparative study of the CMB Anisotropy with COBE data**, Rom. Rep. Phys. 50, 515-521 (1998).

[1.10] Besliu, C; **Popa, L.A.**, Popa, V., **Search for Dibaryonic De-excitations in Relativistic Nuclear reactions,** Journal of Physics G, Volume 19, pp. 1831 - 1840 (1993).

[1.9] Besliu, C., **Popa, L.A.**, Popa, V., Topor, V., **Anomalous Kaon and Pion Production in relativistic Nuclear Reactions and Dibarion De-excitations**, Roum., Journal of Physics, Volume 38, pp. 497– 505 (1993).

[1.8] Besliu, C; **Popa, L.A.**, Popa, V., **Study of Non-Strange Dibaryonic Mass Spectra in np Reaction at 5.1GeV/c,** Journal of Physics G, Volume 18, pp. 807-821 (1992).

[1.7] Besliu, C., **Popa, L.A**., Popa, V., **Dibaryons and Nuclear Matter**, Rev. Roum. Phys., Volume 37, pp. 219 – 226 (1992).

[1.6] Besliu, C., AlBaaj, S., Cotorobai, F., Pantea, D., **Popa, L.A.**, Popa, V., **Strange Nucleonic Rezonances in the Neutron - Proton Interactions at 5.1 GeV/c,** Rev. Roum. Phys. 36, 221-225 (1991).

[1.5] **Popa, L.A.**, Popa, V., Shahbasian, B.A., **Diquark – Four Quark Cluster Model for S=-1 Dibaryonic Resonances**, JINR Rappid Communication, 6 [45], pp. 10 – 25 (1990).

[1.4] Besliu, C., **Popa, L.A.**, Popa, V., **Exotic Effects in Nucleus-Nucleus Collisions at 3.6 GeV/N**, Rev. Roum. Phys. 34, 1231-1238 (1989).

[1.3] Besliu, C., **Popa, L.A**. et al., **Multi-Quark Effects In High-Energy Nucleon Nucleon And Nucleus Nucleus Collisions**, Prog. Part. Nucl. Physics 20, pp. 243 - 251 (1988).

[1.2] Besliu, C.,..., **Popa, L.A.** et al., **Pion production in High energy Nucleus-Nucleus Collisions**, Roum. Jour. Phys., Volume 32, pp. 651 - 655 (1997).

[1.1] Besliu, C., **Popa, L.A.,** Popa, V., Topor-Pop, V., **Nuclear Radii from High Energy Nucleus-Nucleus Total Cross Sections**, Roum. Jour. Phys., Volume 30, pp. 659-672 (1995).

2. Book Chapters

[2.4] **Popa, L.A.,** Caramete, A., **BBN as Probe of Fundamental Physics**, Astrophysics (InTECH, edt. Kuck. I), pp. 386 - 402 (2012)

[2.3] Baterlmann, N.,…,**Popa, L.A**. et al., **Next Challenges**, Questions of Modern Cosmology: Galileo's Legacy (Berlin: Springer-Verlag Heidelberg, edt. D'Onofrio, M. and Burigana, C.), pp. 329-402 (2009)

[2.2] Balbi, A.,…,**Popa, L.A**. et al., **Astrophysical Cosmology**, Questions of Modern Cosmology: Galileo's Legacy (Berlin: Springer-Verlag Heidelberg, edt. D'Onofrio, M. and Burigana, C.), pp. 203-300 (2009).

[2.1] Burigana, C., Salvaterra, R., Finelli, F., **Popa, L.A.**, Mandolesi, N., **Cosmological implications of the next and future CMB experiments,** Recent Research Developments in Astronomy and Astrophysics (edt. Research signpost, Trivandrum), Volume 2, pp. 59 – 117 (2004).

3. Papers given at international meetings (direct presentation)

[3.12] **Popa, L.A., Testing General Relativity at cosmological scales: Implications for Planck and Euclid,** 32nd International Cosmic Ray Conference (ICRC2011)

[3.11] **Popa, L.A.**, **Cosmological perturbations in the generalized theories of gravity,** EXOTIC NUCLEI AND NUCLEAR/PARTICLE ASTROPHYSICS (III): From Nuclei to Stars, (AIP Conference Proceedings, edt. L. Trache, S. Stoica),Volume 1304, pp. 161-169 (2010).

[3.10] **Popa, L.A.**, Vasile, A., **Observational constraints on the lepton asymmetry and radiation energy density**, EXOTIC NUCLEI AND NUCLEAR/PARTICLE ASTROPHYSICS (II): Proceedings of the Carpathian Summer School of Physics 2007 (AIP Conference Proceedings, edt. L. Trache and S. Stoica), Volume 972, pp. 521-525 (2008).

[3.9] **Popa, L. A.,**Stefanescu, P., Burigana, C., **Probing Cosmic Dark Ages with CMB Polarization Measurements**, THE ELEVENTH MARCEL GROSSMANN MEETING On Recent Developments in Theoretical and Experimental General Relativity, Gravitation and Relativistic Field Theories (World Scientific, edt. H. Kleinert, R.T. Jantzen and R. Ruffini), pp. 1671 - 1673, (2008).

[3.8] **Popa, L.A.**, Vasile, A., **Neutrino Background, Diffuse Backgrounds and CMB,** THE ELEVENTH MARCEL GROSSMANN MEETING On Recent Developments in Theoretical and Experimental General Relativity, Gravitation and Relativistic Field Theories (World Scientific, edt. H. Kleinert, R.T. Jantzen and R. Ruffini), pp.1019-1021 (2007).

[3.7] **Popa, L.A**., Burigana, C., **Mapping the ionizing sources with CMB polarization measurements,** CMB AND PHYSICS OF THE EARLY UNIVERSE (Proceedings of Science, edt. G.F. Zotti), PoS(CMB2006)073 (2006).

[3.6] **Popa, L.A**., **Cosmological Implications of Massive Neutrinos**, "Cosmic Radiation: from Astronomy to Particle Physics" (Kluwer Academic, edt. G. Giacomelli, M. Spurio, J.E. Derkaoui), pp. 305-316 (2002).

[3.5] **Popa, L.A**., Burigana, C**., Search for Cosmic Far Infrared Background in COBE-FIRAS data**, XXXIII Rencontres de Moriond: "Fundamental Parameters in Cosmology" (Editions Frontieres, edt. J.Tran Thanh Van), pp. 267-270 (1998).

[3.4] **L.A.Popa,** F. Mechiorri, P.Stefanescu, **Search for Cosmic Far Infrared Background inCOBE/FIRAS data**, "The Far Infrared and Submillimetre Universe" (edt. A.Wilson), pp. 309-311 (1997).

[3.3] **Popa**,**L.A.,** E.Martinez-Gonzalez, J.L.Sanz, **Low Omega Models and Cobras/Samba**, "Int. School on Non Accelerator Particle Astrophysics" (World Scientific, edt. G.Giacomelli), pp. 142-161, (1995).

[3.2] **Popa, L.A.**,**Diquark Approach to Dibarions and Some Consequences**, "Relativistic Nuclear Physics and Q.C.D." (World Scientific, edt.A.M.Baldin,V.V.Burov, L.P. Kaptari), pp. 189-201 (1991).

[3.1] C. Besliu, I. Caraciuc, F. Cotorobai, A. Jipa, A Olariu, D. Pantea**, L.A Popa**,V. Topor, **Multiquark Effects in High Energy Nucleon-Nucleon and Nucleus-Nucleus Collisions**, Progress in Particle and Nuclear Physics" (Pergamon Press, edt. A. Faessler), Tome 20-24, pp. 3-252 (1988).

4. Papers given at international meetings (co-authorship)

[4.19] Salvaterra, R., Burigana, C., Schneider, R.; Choudhury, T. R., Ferrara, A.; **Popa, L. A.**,**Cosmic radiative feedback from reionization**, Memorie della Societa Astronomica Italiana (MSAI) , Volume.80, pp.26 (2009).

[4.18] Menella, A.,…, **Popa, L.A**. et al. (Planck Collaboration), **Calibration and testing of the Planck-LFI QM instrument,** Space Telescopes and Instrumentation I: Optical, Infrared, and Millimeter, Proceedings of the SPIE, Volume 6265, pp. 62650G (2006).

[4.17] Burigana, C., **Popa**, **L.A.**, Finelli, F., Salvaterra, R., De Zotti, G., Mandolesi, N., **Cosmological reionization after WMAP: perspectives from PLANCK and future CMB missions**, JENAM meeting "The many scales in the Universe" (2004) [astro-ph/0411415].

[4.16] Mandolesi, N.,...**Popa, L.A**. et al. (for Planck Collaboration), **The Planck Low Frequency Instrument** JENAM 2004 meeting "The many scales in the Universe" (2004) [astro-ph/0411412].

[4.15] Terenzi, L.,…,Popa, L.A. et al. (for Planck Collaboration), **Radiosource observations with the PLANCK satellite**, MmSAI, Volume 5, pp.419 (2004).

[4.14] Burigana, C.,...,**Popa, L.A**. et al. (for Planck Collaboration), The PLANCK mission after WMAP: methodological aspects and cosmological implications, Memorie della Societa Astronomica Italiana Supplement (MSAIS), Volume 5, pp. 415 (2004).

[4.13] Sandri, M.,...,**Popa, L.A.** et al. (for Planck Collaboration), **PLANCK Low Frequency Instrument: towards a final imaging of the CMB anisotropies**, Memorie della Societa Astronomica Italiana Supplement (MSAIS), Volume 5, pp. 411 (2004).

[4.12] Finelli,F.,...,Popa, L.A. et al. (for Planck Collaboration), **Observing Dark Energy through CMB anisotropies**, Memorie della Societa Astronomica Italiana Supplement (MSAIS), Volume 5, pp. 339 (2004).

[4.11] Zacchei, A.,…, **Popa, L.A.** et al. (for Planck Collaboration), **House Keeping and Science Telemetry: the case of Planck-LFI**, Memorie della Societa Astronomica Italiana Supplement (MASAIS), Vollume 3, p. 33 (2003).

[4.10] Cutaia, F., ...,**Popa, L.A.** et al. (for Planck Collaboration), **4K Reference Load for Planck-LFI instrument**, SIF, 2003

[4.9] Sandri, M.,..., **Popa, L.A.** et al. (for Planck Collaboration), **Characteristics of the Planck telescope at LFI frequencie**s, SIF, 2003

[4.8] Silk, J.,...**Popa, L.A.** et al. (for Planck Collaboration), **Global topological analysis of CMB maps**, ESA Workshop The Scientific Program of Planck (2001).

[4.7] Silk, J.,...**Popa, L.A.** et al. (for Planck Collaboration), **Spectral analysis of the CMB maps:input from other data sets for cosmological parameter estimation,** ESA Workshop The Scientific Program of Planck (2001).

[4.6] Balbi, A.,...**Popa, L.A.** et al. (for Planck Collaboration), **Planck constraints on the cosmological parameters,** ESA Workshop The Scientific Program of Planck (2001).

[4.5] Cortiglioni, S.,...,**Popa, L.A.** et al., (for SPOrt Collaboration) **The Sky Polarization Observatory (SPOrt): Two Years Later**, ESA Second Symposium on the Utilization of ISS,AIP Conf. Proc., Volume 116, pp. 14 (1998).

[4.4] Fabbri, R.,…, Popa, L.A. (for SPOrt Collaboration), **The SPOrt project: Cosmological and astrophysical goals,** Conference on 3K cosmology. AIP Conference Proceedings, Volume 476, pp. 194-203 (1999).

[4.3] Cortiglioni, S.,…, **Popa, L.A.** (for SPOrt Collaboration**), The SPOrt project: an experimental overview,** Conference on 3K cosmology**.** AIP Conference Proceedings, Volume 476, pp. 194-203 (1999).

[4.2] Cortiglioni,S.,...,**Popa, L.A.** et al., (for SPOrt Collaboration) **Sky Polarization Observatory: A Project for International Space Station**, ESA Workshop on Space Resources Exploration, Cagliari, Italy, 20-22 Oct., AIP Conf. Proc. Volume 32, pp. 101, (1998).

[4.1] Besliu, C., Popa, L.A., Popa, V., **Search for Dibaryonic De-excitation Signals in Hadron-Hadron and Nucleus-Nucleus Interactions**, Proceedings of Int. Conf. on Quarks and Hadronic Structure, Como, Italy, pp. 115, (1994).

5. Other reports and preprints

[5.14] Mandolesi, N.,…, **Popa, L.A.** et al. (Planck-LFI Core team**)** **The Case for a Mission Extension of Planck-LFI,** ESA/SC-2010-6, (2010).

[5.13] **Euclid Collaboration: Euclid assessment study report,** ESA/SRE-2009-2, (2009).

[5.12] **Popa, L.A**., Burigana, C., **BPol case: Improved science with respect to Planck regarding the re-ionization history of the Universe**, BPol Workshop, Orsay, 25-27 October (2006).

[5.11] Popa, L.A., WMAP 3-year polarization data: Implications for the reionization history [astro-ph/0605358] (2006).

[5.10] **Popa, L.A**., Burigana, C., Mandolesi, N., **Testing the principle of equivalence with Planck Surveyor**, [astro-ph0209427] (2003).

[5.9] Maris, M., **Popa, L.A.**, **Planck-LFI-DPS Software Verification and Validation document**, PL-LFI-OAT-PL-01 (2003).

[5.8] **Popa, L.A, Dibaryon Induced Instability of Neutron Stars**, I.C.T.P. Trieste, IC/93/74 (1993).

[5.7] Besliu, C., Popa, V., **Popa, L.A**., Topor Pop V., **Search for Dibaryonic De-excitations in Relativistic Nuclear Reactions**, I.C.T.P. Trieste, IC/92/225 (1992).

[5.6] Besliu, C., **Popa, L.A**., Popa, V., **Di-pionic Invariant Mass Spectra as Probes of Dibaryonic De-exctitations**, JINR Dubna (1990).

[5.5] **Popa, L.A.**, Popa, V., **Non-strange Dibaryons in Dense Environements**, JINR Dubna (1990).

[5.4] Besliu, C., Cotorobai, F., Pantea, D., **Popa, L.A.**, Popa, V., Ierusalimov, A.P., **On Diquark Dibaryons**, HE-118-1989 (1989).

[5.3] AlBaaj, S., Besliu, C., **Popa, L.A.**, Popa, V., **Towards the application of String-Like Models in the Hadronic Interactions in the Few GeV's Region**, ICEFIZ FT-365-1989 (1989).

[5.2] AlBaaj, S., Besliu, C., **Popa, L.A.**, Popa, V., **Rapidity Correlations in np Interactions at 5.1 GeV/c**, ICEFIZ NP-74-1989 (1989).

Besliu, C., V., **Popa, L.A.**, **Multi-quark Effects in High Energy Nucleon-Nucleon and Nucleus-Nucleus Collisions**, ICEFIZ HE-114-1988 (1988).

[5.1] Besliu, C., Topor Pop, V., Popa, V., **Popa, L.A**., **Nuclear Radii from High Energy Neutron-Nucleus Total Cross Sections**, ICEFIZ, NP-26-83, 1983 (1983).