Sorin Dăscălescu
Universitatea din Bucureşti

CURRICULUM VITAE

Nume: Dăscălescu Sorin

Locul şi data naşterii: Ploieşti, 23 aprilie 1964

Cetăţenia: Română

Situaţia familială: căsătorit, 2 copii

Adresa personală: Bucureşti, Bld. Naţiunile Unite, nr. 5, bloc 110, sc. 1, ap. 9, sect. 5

Adresa instituţională: Universitatea Bucureşti, Facultatea de Matematică şi Informatică, Str. Academiei 14, Bucureşti 1, RO-010014.

Telefon: 0727072968

Adresa e-mail: sdascal@fmi.unibuc.ro

Studii:
- 1970-1978: şcoala generală, Ploieşti
- 1978-1982: liceul (Liceul "I. L. Caragiale" Ploieşti)
- 1983-1987: studii superioare (Facultatea de Matematică a Universităţii din Bucureşti)
- 1987-1988: anul 5 de specializare (Facultatea de Matematică a Universităţii din Bucureşti).

Doctorat: Universitatea Bucureşti, 1992, "Inele graduate de suport finit" (sub coordonarea Prof. Constantin Năstăsescu).

Experienţa profesională:
- Profesor la Liceul Colorom Codlea (1988-1990)
- Asistent (1990-1995) la Universitatea Bucureşti, Facultatea de Matematică şi Informatică.
- Lector (1995-1999) la Universitatea Bucureşti, Facultatea de Matematică şi Informatică.
- Poziţie postdoctorală (1996-1997) la Dalhousie University (Canada).
- Conferenţiar (1999-2001) la Universitatea Bucureşti, Facultatea de Matematică şi Informatică.
- Profesor asociat (2001-2006) la Kuwait University.
- Profesor (2001-prezent) la Universitatea Bucureşti, Facultatea de Matematică şi Informatică.

Domenii de interes ştiinţific: Algebre Hopf, grupuri cuantice, teoria inelelor, teoria inelelor graduate, teoria categoriilor, algebre Lie.

Publicaţii: 87 articole, dintre care 72 pe Web of Science, Clarivate Analytics (fost ISI Thompson) şi o monografie publicată la editura Marcel Dekker. Articolele sunt publicate în reviste generale: *Inventiones Mathematicae, Journal of the London Math. Soc., Israel Journal of Mathematics, Mathematische Zeitschrift, Manuscripta Math., Pacific J. Math., Proceedings of the American Math. Soc., Forum Mathematicum, Math. Scandinavica* etc, dar şi în reviste specializate *Journal of Algebra* (16 lucrări), *Journal of Pure and Applied Algebra* (3 lucrări), *Communications in Algebra* (19 lucrări), *Algebras and Representation Theory* (2 lucrări), *J. Noncommutative Geometry*, *Linear Alg. Appl.*, *Linear and Multilinear Algebra* (4 lucrări), etc. Lucrările sunt citate de 818 ori, conform MathSciNet (incluzând şi peste 200 citări ale monografiei). Pe Web of Science sunt înregistrate 500 citări (fără autocitări), iar **h-index=14**. Conform Google Academic, **h-index=20**. Printre revistele în care sunt citat menţionez *Annals of Mathematics, Trans. Amer. Math. Soc., J. European Math. Soc., J. Reine Angew. Math., Advances in Mathematics, Proc. London Math. Soc., Ann. Sci. Ecole Norm. Sup., Ann. Sc. Norm. Super. Pisa, Int. Math. Res. Not.*

Activitatea didactică

- cursuri: Algebră I, Algebră II, Algebră şi geometrie analitică, Algebre Hopf, Algebre Lie, Inele graduate, Algebre şi coalgebre, Reprezentări de algebre, Teoria grupurilor, Algebre finit dimensionale.
- coordonarea a peste 30 de lucrări de licenţă şi peste 10 lucrări de dizertaţie.

Doctoranzi

Sunt conducător de doctorat din anul 2008. Am coordonat 4 doctoranzi care şi-au finalizat teza. În perioada 2010-2013 am fost tutore pentru 2 postdoctoranzi în programul POSDRU.

Vizite ştiinţifice în străinătate

Visiting Professor: Stellenbosch (Africa de Sud), octombrie-decembrie 1993; Hobart (Australia), noiembrie 1995; Bruxelles (Belgia), septembrie-decembrie 1997; Cordoba (Argentina), februarie 1999; Sackville (Canada), iunie 1999; Cordoba (Argentina), mai 2000; Ferrara (Italia), octombrie 2000.

Alte vizite ştiinţifice: Cortona, Bressanonne (Italia), 1990; Murcia (Spania), 1991; Anvers (Belgia), 1992, 1994, 1996, 1997, 1998, 1999; Bruxelles (Belgia), 1992, 1994, 1999, 2005; Sackville (Canada), 1992, 1996, 2001; Leeds (Anglia), 1992 şi 1993; Halifax (Canada), 2001, 2002; Almeria (Spania), 1999, 2000; Granada (Spania), 2000; Hasselt (Belgia), 2000.

Participări la conferinţe internaţionale:

Invited speaker la conferinţele:

- "Graded rings and Hopf algebras", St John's (Canada), 1997.
- "Hopf algebras and quantum groups", Bruxelles, 1998.
- "Hopf algebra meeting", MSRI Berkeley, 1999.
- International Conference on Modules and Representation Theory, 7-12 iulie 2008, Cluj-Napoca.
- Hopf algebras, quantum groups and tensor categories, Cordoba, Argentina, 31 August - 5 septembrie 2009.
- Ferrara Algebra Meeting, septembrie 2016.

Prezentări la conferinţele:

- "Modules and abelian groups", Bressanone, Italia, 1990.
- "AMS-Benelux Meeting", Anvers, 1996.
- "Ring Theory Meeting", Miskolc, Ungaria, 1996.
- "Short presentation" la Congresul Internaţional al Matematicienilor, Berlin, 1998.
- "Lie algebras and their representations", Anvers, 2000.
- "AMS meeting", Courant Institute, New York, 2003.
- Vorbitor la AMS Meeting, Boston, Aprilie 2013.
- Vorbitor la AMS-RMS Meeting, Alba-Iulia, iunie 2013.

Organizator al conferinţelor:

- "Hopf algebras and quantum groups", Brussels, 1998.
- "Rings, categories and Hopf algebras", Bucureşti, 2013.
- Conferinţa FMI 150 ani, Bucureşti, 2013.
- Congresul Matematicienilor Români, ediţia a-8-a, Iaşi, 2015.
- "Algebra Workshop", Bucureşti, 2016.
- "Brauer groups, Hopf algebras and monoidal categories", Torino, 2016.

Premii

Premiul "Gheorghe Lazăr" al Academiei Române pe anul 1996.

Alte activităţi

- Membru în colectivul editorial al revistelor: Bull. Sci. Math. Soc. Sci. Math. Roumaine, Proceedings of the Romanian Academy-Series A.
- Director al granturilor:
• "Acţiuni, coacţiuni şi graduări pe algebre" ID-1904 (IDEI), 2008-2011;
• "Algebre Hopf în teoria categoriilor, teoria reprezentării şi combinatorică" ID-0635(IDEI), 2012-2016.
- Director al Şcolii Doctorale de Matematică a Universităţii din Bucureşti în perioada 2011-2016.
- Membru al American Mathematical Society.
- Recenzent pentru Mathematical Reviews şi Zentralblatt fur Math.

MEMORIU DE ACTIVITATE ŞTIINŢIFICĂ

Algebrele Hopf sunt obiecte care într-un anumit sens descriu simetriile unor spaţii. O anumită clasă de algebre Hopf necomutative şi necocomutative, numite grupuri cuantice, descrie simetriile spaţiilor cuantice. Mai mult, coacţiunile algebrelor Hopf descriu transformările spaţiilor respective. Interesul meu ştiinţific principal este în direcţia descrierii structurii şi a clasificării algebrelor Hopf, precum şi în descrierea coacţiunilor acestora. În particular, pentru algebre Hopf grupale, coacţiunile pe algebre revin exact la algebrele graduate după grupul respectiv, iar studiul acestora este de un interes particular în teorie.

Printre cele mai importante contribuţii ştiinţifice ale mele menţionez:
- Rezolvarea în negativ a celei de-a zecea conjecturi de algebre Hopf a lui I. Kaplansky (în lucrarea 51 din lista de lucrări).
- Dezvoltarea unei metode prin care se construiesc algebre Hopf punctate co-Frobenius (lucrarea 44).
- O serie de rezultate de clasificare pentru algebre Hopf punctate: dimensiune p^3 (lucrarea 59), dimensiune 2^n cu coradical mic (lucrarea 55), dimensiune 16 (lucrarea 48), dimensiune p^n cu coradical mare (lucrarea 49).
- Rezultate de clasificare pentru algebre Hopf cu proprietatea Chevalley (lucrarea 37).
- Definirea şi studiul coalgebrelor simetrice (lucrarea 29).
- Clasificarea subcoalgebrelor de drumuri ale coalgebrei de drumuri care sunt co-Frobenius şi determinarea tuturor structurilor de algebră Hopf pe astfel de coalgebre; în particular au fost obţinute clase noi de grupuri cuantice cu integrale nenule (lucrările 10, 13).
- Dezvoltarea unei metode de clasificare a algebrelor Hopf finit dimensionale folosind anvelopele injective ale comodulelor simple şi aplicarea lor în teoria clasificării, în particular clasificarea algebrelor Hopf de dimensiune 14 (lucrarea 38).
- Clasificarea anumitor grupuri cuantice folosind metoda "Lifting" (lucrările 27, 37).
- Studiul şi clasificarea structurilor de algebră graduată pe algebra de matrice: graduări după un grup ciclic (lucrările 47, 40), clasificarea completă a graduărilor pe $M_2(k)$ (lucrarea 35) şi pe $M_3(k)$ (lucrarea 24), descrierea completă a structurilor de superalgebră pe algebra de matrice de ordin 2 peste un corp comutativ (lucrările 54, 47), clasificarea graduărilor bune pe anumite algebre de matrice, clasificarea graduărilor pe algebre diagonale.
- Un studiu al algebrelor Hopf co-Frobenius: dezvoltarea unei teorii Hopf-Galois şi studiul proprietăţilor de finitudine ale acestora (lucrările 60, 66).
- O serie de rezultate privind coacţiunile algebrelor Hopf pe coalgebre: o teoremă de dualitate pentru comodul coalgebre peste algebre Hopf finit dimensionale (lucrarea 77), studiul coacţiunilor algebrelor Hopf cosemisimple pe coalgebre (lucrarea 73), o modalitate categorială de a defini (co) produsele smash (lucrarea 63).
- Dezvoltarea unei teorii a comodulelor graduate după G-mulţimi (lucrările 69, 65).
- Rezolvarea "Problemei de izomorfism" pentru inele de matrice peste
inele Noetheriene semiprime (lucrarea 71) şi pentru inele de matrice triunghiulare cu blocuri complete peste inele Noetheriene (lucrarea 61).
- Descrierea coextensiilor cleft prin coproduse încrucişate (lucrarea 76).
- Rezultate privind graduări de suport finit (lucrările 74, 82).
- Studiul algebrelor Frobenius şi algebrelor simetrice într-o categorie de coreprezentări a unei algebre Hopf (lucrările 9, 5, 3, 1). Două dintre rezultatele principale obţinute au fost: (i) o teoremă de structură pentru algebrele gr-Frobenius; (ii) Demonstrarea faptului că un corp graduat este algebră simetrică în categoria spaţiilor vectoriale graduate.

Interesul meu în algebra necomutativă a apărut din anul 1986, când fiind student în anul 4 am participat la "Săptămâna de algebră", organizată la Iaşi. Tema din acel an a fost "Inele graduate", un subiect în plină dezvoltare în acel moment. Acolo l-am cunoscut pe profesorul Constantin Năstăsescu, cu care am început atunci o colaborare ştiinţifică care a continuat până acum. Primele probleme de care m-am ocupat au fost legate de inelele graduate de suport finit, în particular privind anumite condiţii d e finitudine şide structura obiectelor injective în categoria modulelor graduate. La unele dintre aceste probleme am colaborat şi cu A. Del Rio (Murcia), F. Van Oystaeyen (Antwerp) şi M. Beattie (Sackville). Rezultatele obţinute au constituit partea principală a tezei mele de doctorat, sub coodonarea Prof. C. Năstăsescu, susţinută în 1992.

Tot în 1992 am devenit interesat în studiul coalgebrelor graduate, obiecte duale algebrelor graduate, şi mai general, în studiul coacţiunilor algebrelor Hopf pe coalgebre. Într-o serie de lucrări elaborate cu C. Năstăsescu, Ş. Raianu, F. Van Oystaeyen, Y. H. Zhang şi S. Caenepeel, am obţinut teoreme de dualitate pentru coalgebre graduate, iar mai apoi pentru coacţiuni ale agebrelor Hopf finit dimensional pe coalgebre, am dezvoltat o teorie a coproduselor graduate încrucişate şi o teorie Hopf-Galois pentru coacţiuni.

În anul 1995 am început împreună cu M. Beattie şi Ş. Raianu un proiect de a extinde teoria Hopf-Galois de la coacţiuni ale algebrelor Hopf finit dimensionale la coacţiuni ale algebrelor Hopf cu integrale nenule. În 1996 am obţinut o bursă postdoctorală la Universitatea Dalhousie (Halifax, Canada), unde împreună cu L. Grunenfelder şi M. Beattie am continuat studiul anumitor proprietăţi de finitudine ale algebrelor Hopf cu integrale nenule. În particular am fost interesaţi în descoperirea unor clase noi de astfel de algebre Hopf. Studiul a condus şi la construcţia unor clase interesante de algebre Hopf co-Frobenius punctate şi a unor clase noi de grupuri cuantice cu integrale nenule, obţinute prin extensii de algebre Hopf. Idei apărute în acest studiu ne-au condus în direcţia clasificării algebrelor Hopf, una dintre cele mai dinamice direcţii de cercetare din algebra necomutativă. Cele două clase de algebre Hopf care într-un anumit sens se găsesc la capetele teoriei de clasificare sunt algebrele Hopf punctate şi algebrele Hopf semisimple. Primele au coradicalul cel mai mic posibil, şi anume o algebră Hopf grupală, în timp ce cele din urmă sunt egale cu coradicalul lor. Noi am dezvoltat o metodă de a construi clase largi de algebre Hopf punctate finit dimensionale, folosind iterativ extinderi Ore înzestrate cu structuri de algebre Hopf în care nedeterminatele sunt elemente primitive strâmbe. Pentru anumite dimensiuni, aceste clase construite păreau să conţină toate tipurile de izomorfism de algebre Hopf punctate. În 1997 am început să lucrez la astfel de probleme de clasificare în mai multe proiecte împreună cu M. Beattie, L. Grunenfelder, S. Caenepeel, Ş. Raianu. Unul dintre cele mai importante rezultate obţinute a fost rezolvarea în negativ a celei de-a 10-a conjecturi a lui Kaplansky privind algebrele Hopf finit dimensionale, mai precis am arătat că numărul tipurilor de izomorfism de algebre Hopf de dimensiune finită dată peste un corp algebric închis de caracteristică zero poate fi infinit. În plus, am obţinut rezultate de clasificare pentru algebrele Hopf punctate de dimensiune p^3, p prim, pentru dimensiune 2^n cu coradical de ordin 2, de dimensiune p^n cu coradical de indice p, de dimensiune 16.

În 1999 am început o colaborare cu N. Andruskiewitsch, încercând să înţelegem structura algebrelor Hopf punctate cu coradical un grup de indice 2. Pentru aceasta am dezvoltat o teorie a algebrelor Nichols de un anumit tip, care sunt de fapt agebre Hopf într-o anumită categorie braided, iar structura acestora are un puternic caracter geometric.

Tot în direcţia clasificărilor algebrelor Hopf am dezvoltat împreună cu M. Beattie o tehnică nouă de clasificare, folosind studiul anvelopelor injective ale comodulelor simple, care au condus la clasificări complete în câteva noi dimensiuni. O direcţie nouă pe care am deschis-o într-o lucrare amplă cu C. Călinescu, A. Masuoka şi C. Menini din 2004, a fost studiul algebrelor Hopf cu proprietatea Chevalley, sau echivalent, cu coradicalul o subalgebră Hopf.

O ată direcţie de studiu în care am fost interesat a fost aceea a graduărilor pe algebre de matrice. Am iniţiat acest studiu în 1998, iar apoi am continuat investigaţiile împreună cu C. Năstăsescu, S. Caenepeel, C. Boboc, R. Khazal. Am evidenţiat rolul jucat în clasificarea graduărilor de graduările bune, în care toate unităţile matriceale sunt elemente omogene şi am clasificat aceste graduări ca orbitele unei anumite biacţiuni. Pe de altă parte, am obţinut rezultate de clasificare complete pentru algebre de matrice de dimensiuni mici şi pentru anumite subalgebre ale algebrelor de matrice, de exemplu pentru algebrele diagonale.

Încă din 1993 am fost interesat de anumite probleme plasate undeva între teoria inelelor şi algebra liniară, şi anume studiul inelelor structurale de matrice. Acestea sunt subinele ale inelului complet de matrice (peste un inel oarecare), constând din toate matricele care au 0 pe anumite poziţii prestabilite. Aceste clase de matrice sunt de o importanţă fundamentală în teoria invarianţilor. Împreună cu L. van Wyk am obţinut rezultate de clasificare şi structură pentru inelele structurale de matrice, iar apoi studiul a continuat cu investigarea automorfismelor şi automorfismelor Jordan ale inelelor generalizate de matrice, în lucrări elaborate împreună cu L. van Wyk, C. Boboc, S. Preduţ.

Continuând studiile descrise mai sus legate de algebrele Hopf cu integrală nenulă, am avut în mod constant un interes pentru această clasă, şi mai general, pentru coalgebrele co-Frobenius. Aici am obţinut rezultate privind structura modulelor Doi-Hopf generalizate injective, studiul spaţiului de integrale ale unei coalgebre relativ la un comodul şi înţelegerea filtrării coradicale şi consecinţe asupra unei posibile clasificări a algebrelor Hopf co-Frobenius. Rezultatele obţinute împreună cu C. Năstăsescu, B. Torrecillas, N. Andruskiewitsch.

O direcţie de studiu asociată celei precedente a fost într-o direcţie de algebră combinatorică, mai precis investigarea subcoalgebrelor coalgebrelor de drumuri asociate unor grafuri, precum şi a subcoalgebrelor coalgebrelor de incidenţă asociate unor mulţimi parţial ordonate, care sunt co-Frobenius. Rezultate de clasificare pentru aceste obiecte au fost obţinute împreună cu M. Iovanov şi C. Năstăsescu; în plus am descris şi toate structurile de algebră Hopf care pot fi introduse pe o coalgebră din clasa celor clasificate. În acest fel am construit clase noi de grupuri cuantice, de interes în algebră şi combinatorică.

O ultimă direcţie de stuiu în care am fost mai recent interesat a fost a algebrelor Frobenius. Acestea sunt algebre cu o foarte bogată teorie a reprezentării şi apar în numeroase domenii, unele cu totul neaşteptate: coomologia varietăţilor orientate compacte, ecuaţia Yang-Baxter cuantică, polinoamele Jones, teoria câmpului cuantic topologic, etc. Împreună cu C. Năstăsescu şi L. Năstăsescu am investigat algebrele Frobenius în anumite categorii monoidale: în categoria spaţiilor vectoriale graduate după un grup dat, şi mai general, în categoria coreprezentărilor unei algebre Hopf. Mai mult, am considerat şi conceptul de algebră simetrică în astfel de categorii. Un rezultat principal a fost cel care descrie complet algebrele graduate care sunt algebre Frobenius în categoria spaţiilor graduate.

12 PUBLICAŢII REPREZENTATIVE

1. M. Beattie, S. Dăscălescu, L. Grünenfelder, On the number of types of finite dimensional Hopf algebras, Inventiones Math. **136** (1999), 1-7.

2. M. Beattie, S. Dăscălescu, Hopf algebras of dimension 14, Journal of the London Math. Soc. **69** (2004), 65-78.

3. M. Beattie, S. Dăscălescu, Ş. Raianu, Lifting of Nichols algebras of type B_2, Israel J. Math. **132** (2002), 1-28.

4. N. Andruskiewitsch, S. Dăscălescu, Co-Frobenius Hopf algebras and the coradical filtration, Mathematische Zeitschrift **243** (2003), 145-154.

5. M. Beattie, S. Dăscălescu, L. Grünenfelder, Constructing pointed Hopf algebras by Ore extensions, J. Algebra **225**(2000), 743-770.

6. S. Caenepeel, S. Dăscălescu, L. Le Bruyn, Forms of Hopf algebras, Manuscripta Math. **100** (1999), 35-53.

7. S. Dăscălescu, B. Ion, C. Năstăsescu, J. Rios, Group gradings on full matrix rings, J. Algebra **220** (1999), 709-728.

8. S. Caenepeel, S. Dăscălescu, On pointed Hopf algebras of dimension 2^n, Bull. London Math. Soc. **31**(1999), 17-24.

9. S. Dăscălescu, M. Iovanov, C. Năstăsescu, Path subcoalgebras, finiteness properties and quantum groups, Journal of Noncommutative Geometry **7** (2013), 737-766.

10. S. Dăscălescu, M. Iovanov, C. Năstăsescu, Quiver algebras, path coalgebras and coreflexivity, Pacific J. Math. **262** (2013), 49-79.

11. S. Dăscălescu, C. Năstăsescu, L. Năstăsescu, Frobenius algebras of corepresentations and group-graded vector spaces, J. Algebra **406** (2014), 226-250.

12. C. Călinescu, S. Dăscălescu, A. Masuoka, C. Menini, Quantum lines over non-cocommutative Hopf algebras, J. Algebra **273** (2004), 753-779.

PUBLICAŢII - LISTA COMPLETĂ

Cărţi

1. S. Dăscălescu, C. Năstăsescu, Ş. Raianu, "Hopf Algebras: an introduction", Monographs in Pure and Applied Mathematics, **235** (2000), Marcel Dekker, New-York.

2. S. Dăscălescu, C. Năstăsescu, Ş. Raianu, Algebre Hopf, Editura Universităţii Bucureşti, 1998.

3. C. Băeţica, S. Dăscălescu, Probleme de algebră, Editura Universităţii Bucureşti, 1993.

4. C. Băeţica, C. Boboc, S. Dăscălescu şi G. Mincu, "Probleme de algebră", Editura Universităţii Bucureşti, 2008.

Articole

1. S. Dăscălescu, C. Năstăsescu, L. Năstăsescu, Hopf algebra actions and transfer of Frobenius and symmetric properties, va apărea în Math. Scandinavica.

2. F. Beşleagă, S. Dăscălescu, L. Van Wyk, Classifying good gradings on structural matrix algebras, Linear and Multilinear Algebra, https://doi.org/10.1080/03081087.2018.1476447

3. S. Dăscălescu, C. Năstăsescu, L. Năstăsescu, Graded semisimple algebras are symmetric, J. Algebra **491** (2017), 207-218.

4. S. Dăscălescu, G. Pavel, On the minimal number of generators of subalgebras of (co)invariants, Comm. Algebra **45** (2017), 4686-4690.

5. S. Dăscălescu, C. Năstăsescu, L. Năstăsescu, Symmetric algebras in categories of corepresentations and smash products, J. Algebra **465** (2016), 62-80.

6. C. Boboc, S. Dăscălescu, L. Van Wyk, Jordan isomorphisms of 2-torsionfree triangular rings, Linear and Multilinear Algebra **64** (2016), 290-296.

7. S. Dăscălescu, C. Năstăsescu, L. Năstăsescu, Group gradings on polynomial algebras, Comm. Algebra **44** (2016), 3340-3348.

8. S. Dăscălescu, M. Iovanov, Semiperfect and coreflexive coalgebras, Forum Math. **27** (2015), 2587-2607.

9. S. Dăscălescu, C. Năstăsescu, L. Năstăsescu, Frobenius algebras of corepresentations and group-graded vector spaces, J. Algebra **406** (2014), 226-250.

10. S. Dăscălescu, M. Iovanov, C. Năstăsescu, Path subcoalgebras, finiteness properties and quantum groups, Journal of Noncommutative Geometry **7** (2013), 737-766.

11. S. Dăscălescu, M. Iovanov, S. Preduţ, Frobenius structural matrix algebras, Linear Alg. Appl. **439** (2013), 3166-3172.

12. M. Bărăscu, S. Dăscălescu, Good gradings on upper block triangular matrix algebras, Comm. Algebra **41** (2013), 4290-4298.

13. S. Dăscălescu, M. Iovanov, C. Năstăsescu, Quiver algebras, path coalgebras and coreflexivity, Pacific J. Math. **262** (2013), 49-79.

14. S. Dăscălescu, S. Predut, L. Van Wyk, Jordan isomorphisms of generalized structural matrix rings, Linear and Multilinear Algebra **61** (2013), 369-376.

15. S. Dăscălescu, C. Năstăsescu şi B. Toader, Doi-Hopf modules associated to comodule coalgebras, Comm. Algebra **41** (2013), 1854-1864.

16. C. Boboc, S. Dăscălescu, L. Van Wyk, Isomorphisms between Morita context rings, Linear and Multilinear Algebra **60** (2012), 545-563.

17. S. Dăscălescu, C. Năstăsescu, A. Tudorache, A note on regular objects in Grothendieck categories, Arabian Journal for Science and Engineering 36 (2011), 957-962.

18. S. Dăscălescu, C. Năstăsescu şi B. Toader, On the dimension of the space of integrals on coalgebras, Journal of Algebra 324 (2010), 1625-1635.

19. S. Dăscălescu, C. Năstăsescu, G. Velicu, Balanced bilinear forms and finiteness properties for incidence coalgebras over a field, Rev. Union Mat. Argentina **51** (2010), 13-20.

20. S. Dăscălescu, C. Năstăsescu, Coactions on spaces of morphisms, Algebras and representation theory **12** (2009), 193-198.

21. S. Dăscălescu, C. Năstăsescu, M. Năstasescu, Strongly involutory functors, Comm. Algebra **37** (2009), 1677-1689.

22. S. Dăscălescu, Group gradings on diagonal algebras, Arch. Math. **91** (2008), 212-217.

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