

**Sorin Dăscălescu**  
**Universitatea din București**

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## CURRICULUM VITAE

**Nume:** Dăscălescu Sorin

**Locul și data nașterii:** Ploiești, 23 aprilie 1964

**Cetățenia:** Română

**Situația familială:** căsătorit, 2 copii

**Adresa personală:** București, Bld. Națiunile Unite, nr. 5, bloc 110, sc. 1, ap. 9, sect. 5

**Adresa instituțională:** Universitatea București, Facultatea de Matematică și Informatică, Str. Academiei 14, București 1, RO-010014.

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### Studii:

- 1970-1978: școala generală, Ploiești
- 1978-1982: liceul (Liceul "I. L. Caragiale" Ploiești)
- 1983-1987: studii superioare (Facultatea de Matematică a Universității din București)
- 1987-1988: anul 5 de specializare (Facultatea de Matematică a Universității din București).

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

### Experiența profesională:

- Profesor la Liceul Colorom Codlea (1988-1990)
- Asistent (1990-1995) la Universitatea București, Facultatea de Matematică și Informatică.
- Lector (1995-1999) la Universitatea București, Facultatea de Matematică și Informatică.
- Poziție postdoctorală (1996-1997) la Dalhousie University (Canada).
- Conferențiar (1999-2001) la Universitatea București, Facultatea de Matematică și Informatică.
- Profesor asociat (2001-2006) la Kuwait University.
- Profesor (2001-prezent) la Universitatea București, Facultatea de Matematică și Informatică.

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

**Publicații:** 87 articole, dintre care 72 pe Web of Science, Clarivate Analytics (fost ISI Thompson) și 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*, *Trans. Amer. Math. Soc.*, *Manuscripta Math.*, *Pacific J. Math.*, *Proceedings of the American Math. Soc.*, *Forum Mathematicum*, *Math. Scandinavica* etc, dar și 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 și 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 menționez *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 și geometrie analitică, Algebre Hopf, Algebre Lie, Inele graduate, Algebre și coalgebre, Reprezentări de algebre, Teoria grupurilor, Algebre finit dimensionale.
- coordonarea a peste 30 de lucrări de licență și peste 10 lucrări de dizertație.

### **Doctoranzi**

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

### **Vizite științifice 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 științifice:* Cortona, Bressanone (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 și 1993; Halifax (Canada), 2001, 2002; Almeria (Spania), 1999, 2000; Granada (Spania), 2000; Hasselt (Belgia), 2000.

### **Participări la conferințe internaționale:**

*Invited speaker la conferințele:*

- "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 conferințele:*

- "Modules and abelian groups", Bressanone, Italia, 1990.
- "AMS-Benelux Meeting", Anvers, 1996.
- "Ring Theory Meeting", Miskolc, Ungaria, 1996.
- "Short presentation" la Congresul Internațional 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 conferințelor:*

- "Hopf algebras and quantum groups", Brussels, 1998.
- "Rings, categories and Hopf algebras", București, 2013.
- Conferința FMI 150 ani, București, 2013.
- Congresul Matematicienilor Români, ediția a-8-a, Iași, 2015.
- "Algebra Workshop", București, 2016.
- "Brauer groups, Hopf algebras and monoidal categories", Torino, 2016.

### **Premii**

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

### **Alte activități**

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

## MEMORIU DE ACTIVITATE ȘTIINȚIFICĂ

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

Printre cele mai importante contribuții științifice ale mele menționez:

- Rezolvarea în negativ a celei de-a zecea conjecturi de algebre Hopf a lui I. Kaplansky (în lucrarea 52 din lista de lucrări).
- Dezvoltarea unei metode prin care se construiesc algebre Hopf punctate co-Frobenius (lucrarea 45).
- O serie de rezultate de clasificare pentru algebre Hopf punctate: dimensiune  $p^3$  (lucrarea 60), dimensiune  $2^n$  cu coradical mic (lucrarea 56), dimensiune 16 (lucrarea 49), dimensiune  $p^n$  cu coradical mare (lucrarea 50).
- Rezultate de clasificare pentru algebre Hopf cu proprietatea Chevalley (lucrarea 38).
- Definierea și studiul coalgebrelor simetrice (lucrarea 30).
- Clasificarea subcoalgebrelor de drumuri ale coalgebrei de drumuri care sunt co-Frobenius și determinarea tuturor structurilor de algebră Hopf pe astfel de coalgebre; în particular au fost obținute clase noi de grupuri cuantice cu integrale nenule (lucrările 11, 14).
- Dezvoltarea unei metode de clasificare a algebrelor Hopf finit dimensionale folosind anvelopele injective ale comodulelor simple și aplicarea lor în teoria clasificării, în particular clasificarea algebrelor Hopf de dimensiune 14 (lucrarea 39).
- Clasificarea anumitor grupuri cuantice folosind metoda "Lifting" (lucrările 28, 38).
- Studiul și clasificarea structurilor de algebră graduată pe algebra de matrice: graduări după un grup ciclic (lucrările 48, 41), clasificarea completă a graduărilor pe  $M_2(k)$  (lucrarea 36) și pe  $M_3(k)$  (lucrarea 25), descrierea completă a structurilor de superalgebră pe algebra de matrice de ordin 2 peste un corp comutativ (lucrările 55, 48), 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 și studiul proprietăților de finitudine ale acestora (lucrările 61, 67).
- O serie de rezultate privind coacțiunile algebrelor Hopf pe coalgebre: o teoremă de dualitate pentru comodul coalgebre peste algebre Hopf finit dimensionale (lucrarea 78), studiul coacțiunilor algebrelor Hopf cosemisimple pe coalgebre (lucrarea 74), o modalitate categorială de a defini (co) produsele smash (lucrarea 64).
- Dezvoltarea unei teorii a comodulelor graduate după  $G$ -mulțimi (lucrările 70, 66).
- Rezolvarea "Problemei de izomorfism" pentru inele de matrice peste inele Noetheriene semiprime (lucrarea 72) și pentru inele de matrice triunghiulare cu blocuri complete peste inele Noetheriene (lucrarea 62).
- Descrierea coextensiilor cleft prin coproduse încrucișate (lucrarea 77).
- Rezultate privind graduări de suport finit (lucrările 75, 83).
- Studiul algebrelor Frobenius și algebrelor simetrice într-o categorie de coreprezentări a unei algebre Hopf (lucrările 10, 6, 4, 2). Două dintre rezultatele principale obținute au fost: (i) o teoremă de structură pentru algebrele gr-Frobenius; (ii) Demonstrarea faptului că un corp graduat este algebră simetrică în categoria spațiilor 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 Iași. 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 științifică 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 condiții de finitudine și de structura obiectelor injective în categoria modulelor graduate. La unele dintre aceste probleme am colaborat și cu A. Del Rio (Murcia), F. Van Oystaeyen (Antwerp) și M. Beattie (Sackville). Rezultatele obținute au constituit partea principală a tezei mele de doctorat, sub coordonarea Prof. C. Năstăsescu, susținută în 1992.

Tot în 1992 am devenit interesat în studiul coalgebrei graduate, obiecte duale algebrilor graduate, și mai general, în studiul coacțiunilor algebrilor Hopf pe coalgebre. Într-o serie de lucrări elaborate cu C. Năstăsescu, Ș. Raianu, F. Van Oystaeyen, Y. H. Zhang și S. Caenepeel, am obținut teoreme de dualitate pentru coalgebre graduate, iar mai apoi pentru coacțiuni ale algebrilor Hopf finit dimensional pe coalgebre, am dezvoltat o teorie a coproduselor graduate încrucișate și o teorie Hopf-Galois pentru coacțiuni.

În anul 1995 am început împreună cu M. Beattie și Ș. Raianu un proiect de a extinde teoria Hopf-Galois de la coacțiuni ale algebrilor Hopf finit dimensionale la coacțiuni ale algebrilor Hopf cu integrale nenule. În 1996 am obținut o bursă postdoctorală la Universitatea Dalhousie (Halifax, Canada), unde împreună cu L. Grunenfelder și M. Beattie am continuat studiul anumitor proprietăți de finitudine ale algebrilor Hopf cu integrale nenule. În particular am fost interesați în descoperirea unor clase noi de astfel de algebre Hopf. Studiul a condus și la construcția unor clase interesante de algebre Hopf co-Frobenius punctate și a unor clase noi de grupuri cuantice cu integrale nenule, obținute prin extensii de algebre Hopf. Idei apărute în acest studiu ne-au condus în direcția clasificării algebrilor Hopf, una dintre cele mai dinamice direcții 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 și algebrele Hopf semisimple. Primele au coradicalul cel mai mic posibil, și 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 strâmbă. Pentru anumite dimensiuni, aceste clase construite păreau să conțină 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, Ș. Raianu. Unul dintre cele mai importante rezultate obținute 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 obținut 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 înțelegem structura algebrilor Hopf punctate cu coradical un grup de indice 2. Pentru aceasta am dezvoltat o teorie a algebrilor Nichols de un anumit tip, care sunt de fapt algebre Hopf într-o anumită categorie braided, iar structura acestora are un puternic caracter geometric.

Tot în direcția clasificărilor algebrilor 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 direcție nouă pe care am deschis-o într-o lucrare amplă cu C. Călinescu, A. Masuoka și C. Menini din 2004, a fost studiul algebrilor Hopf cu proprietatea Chevalley, sau echivalent, cu coradicalul o subalgebră Hopf.

O altă direcție de studiu în care am fost interesat a fost aceea a graduărilor pe algebre de matrice. Am inițiat acest studiu în 1998, iar apoi am continuat investigațiile împreună cu C. Năstăsescu, S. Caenepeel, C. Boboc, R. Khazal. Am evidențiat rolul jucat în clasificarea graduărilor de graduările bune, în care toate unitățile matriceale sunt elemente omogene și am clasificat aceste graduări ca orbitele unei anumite biacțiuni. Pe de altă parte, am obținut rezultate de clasificare complete pentru algebre de matrice de dimensiuni mici și 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 și algebra liniară, și 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 poziții prestabilite. Aceste clase de matrice sunt de o importanță fundamentală în teoria invariantilor. Împreună cu L. van Wyk am obținut rezultate de clasificare și structură pentru inelele structurale de matrice, iar apoi studiul a continuat cu investigarea automorfismelor și automorfismelor Jordan ale inelelor generalizate de matrice, în lucrări elaborate împreună cu L. van Wyk, C. Boboc, S. Preduț.

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

O direcție de studiu asociată celei precedente a fost într-o direcție de algebră combinatorică, mai precis investigarea subcoalgebrelor coalgebrelor de drumuri asociate unor grafuri, precum și a subcoalgebrelor coalgebrelor de incidență asociate unor mulțimi parțial ordonate, care sunt co-Frobenius. Rezultate de clasificare pentru aceste obiecte au fost obținute împreună cu M. Iovanov și C. Năstăsescu; în plus am descris și 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 și combinatorică.

O ultimă direcție de studiu în care am fost mai recent interesat a fost a algebrelor Frobenius. Acestea sunt algebre cu o foarte bogată teorie a reprezentării și apar în numeroase domenii, unele cu totul neașteptate: coomologia varietăților orientate compacte, ecuația Yang-Baxter cuantică, polinoamele Jones, teoria câmpului cuantic topologic, etc. Împreună cu C. Năstăsescu și L. Năstăsescu am investigat algebrele Frobenius în anumite categorii monoidale: în categoria spațiilor vectoriale graduate după un grup dat, și mai general, în categoria coreprezentărilor unei algebre Hopf. Mai mult, am considerat și 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 spațiilor graduate.

## 12 PUBLICAȚII 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, Ș. 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.

## PUBLICAȚII - LISTA COMPLETĂ

### Cărți

1. S. Dăscălescu, C. Năstăsescu, Ș. Raianu, "Hopf Algebras: an introduction", Monographs in Pure and Applied Mathematics, **235** (2000), Marcel Dekker, New-York.
2. S. Dăscălescu, C. Năstăsescu, Ș. Raianu, Algebre Hopf, Editura Universității București, 1998.
3. C. Băețica, S. Dăscălescu, Probleme de algebră, Editura Universității București, 1993.
4. C. Băețica, C. Boboc, S. Dăscălescu și G. Mincu, "Probleme de algebră", Editura Universității București, 2008.

### Articole

1. F. Beșleagă, S. Dăscălescu, Structural matrix algebras, generalized flags and gradings, va apărea în Trans. Amer. Math. Soc.
2. S. Dăscălescu, C. Năstăsescu, L. Năstăsescu, Hopf algebra actions and transfer of Frobenius and symmetric properties, Math. Scandinavica **126** (2020), 32-40.
3. F. Beșleagă, S. Dăscălescu, L. Van Wyk, Classifying good gradings on structural matrix algebras, Linear and Multilinear Algebra **67** (2019), 1948-1957.
4. S. Dăscălescu, C. Năstăsescu, L. Năstăsescu, Graded semisimple algebras are symmetric, J. Algebra **491** (2017), 207-218.
5. S. Dăscălescu, G. Pavel, On the minimal number of generators of subalgebras of (co)invariants, Comm. Algebra **45** (2017), 4686-4690.
6. S. Dăscălescu, C. Năstăsescu, L. Năstăsescu, Symmetric algebras in categories of corepresentations and smash products, J. Algebra **465** (2016), 62-80.
7. C. Boboc, S. Dăscălescu, L. Van Wyk, Jordan isomorphisms of 2-torsionfree triangular rings, Linear and Multilinear Algebra **64** (2016), 290-296.
8. S. Dăscălescu, C. Năstăsescu, L. Năstăsescu, Group gradings on polynomial algebras, Comm. Algebra **44** (2016), 3340-3348.
9. S. Dăscălescu, M. Iovanov, Semiperfect and coreflexive coalgebras, Forum Math. **27** (2015), 2587-2607.
10. S. Dăscălescu, C. Năstăsescu, L. Năstăsescu, Frobenius algebras of corepresentations and group-graded vector spaces, J. Algebra **406** (2014), 226-250.
11. S. Dăscălescu, M. Iovanov, C. Năstăsescu, Path subcoalgebras, finiteness properties and quantum groups, Journal of Noncommutative Geometry **7** (2013), 737-766.
12. S. Dăscălescu, M. Iovanov, S. Preduț, Frobenius structural matrix algebras, Linear Alg. Appl. **439** (2013), 3166-3172.

13. M. Băraşcu, S. Dăscălescu, Good gradings on upper block triangular matrix algebras, *Comm. Algebra* **41** (2013), 4290-4298.
14. S. Dăscălescu, M. Iovanov, C. Năstăsescu, Quiver algebras, path coalgebras and coreflexivity, *Pacific J. Math.* **262** (2013), 49-79.
15. S. Dăscălescu, S. Preduţ, L. Van Wyk, Jordan isomorphisms of generalized structural matrix rings, *Linear and Multilinear Algebra* **61** (2013), 369-376.
16. S. Dăscălescu, C. Năstăsescu şi B. Toader, Doi-Hopf modules associated to comodule coalgebras, *Comm. Algebra* **41** (2013), 1854-1864.
17. C. Boboc, S. Dăscălescu, L. Van Wyk, Isomorphisms between Morita context rings, *Linear and Multilinear Algebra* **60** (2012), 545-563.
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