

LISTA DE LUCRĂRI PUBLICATE



Mircea CIMPOEAȘ

- FACULTATEA DE ȘTIINȚE APLICATE UNIVERSITATEA POLITEHNICA BUCUREȘTI (UNSTPB).
- INSTITUTUL DE MATEMATICA „SIMION STOILOW” AL ACADEMIEI ROMÂNE (IMAR).

LUCRĂRI REPREZENTATIVE (R)

Lista de lucrări reprezentative

(R1). Mircea Cimpoeas, „A stable property of Borel type ideals”, Communications in Algebra 36(2) (2008), pag. 674-677. DOI:10.1080/00927870701724136, WOS:000253722000028, **ISSN:** 0092-7872

(R2). Mircea Cimpoeas, „Stanley depth of complete intersection monomial ideals”, Bull. Math. Soc. Sci. Math. Roumanie 51(99)(3) (2008), pag. 205-211. WOS:000259388700003, **ISSN:**1220-3874

(R3). Mircea Cimpoeas, „Some remarks on Borel type ideals”, Communications in Algebra 37(2)(2009), pag. 724-727. DOI: 10.1080/00927870802186227, WOS:000263199400026, **ISSN:** 0092-7872

(R4). Mircea Cimpoeas, „Stanley depth of monomial ideals with small number of generators”, Central European Journal of Mathematics 7(4) (2009), pag. 629-634. DOI: 10.2478/s11533-009-0037-0. WOS:000271396700005, **ISSN:** 1895-1074

(R5). Mircea Cimpoeas, Dumitru Stamate, „On intersection of complete intersection ideals”, Journal of Pure and Applied Algebra, Volume 220, Issue 11, November (2016), pag. 3702-3712. DOI: 10.1016/j.jpaa.2016.05.008, WOS:000378964200007, **ISSN:** 0022-4049

(R6). Mircea Cimpoeas, Florin Nicolae, „On the restricted partition function”, Ramanujan J. 47, no. 3 (2018), pag. 565-588. DOI: 10.1007/s11139-017-9985-3, WOS:000449797800006, **ISSN:**1382-4090

(R7). Mircea Cimpoeas, Florin Nicolae, „Independence of Artin L-functions”, Forum Math. 31, no. 2 (2019), pag. 529-534. DOI: 10.1515/forum-2018-0185, WOS:000459863500016, **ISSN:** 0933-7741

(R8). Mircea Cimpoeas, „On the Restricted Partition Function via Determinants with Bernoulli Polynomials”, Mediterr. J. Math. Volume 17, Issue 2 (2020), 19 pp, DOI: 10.1007/s00009-020-1478-8, WOS: 000517191800002, **ISSN:** 1660-5446

(R9). Mircea Cimpoeas, Florin Nicolae, „Artin L-functions of almost monomial Galois groups”, Forum Math. 32, no. 4 (2020), pag. 937-940. **DOI** 10.1515/forum-2019-0288, WOS:000544194200006, **ISSN:** 0933-7741

(R10). Mircea Cimpoeas, „On a generalization of monomial groups”, Monatshefte für Mathematik, Volume 202, Issue 1 (2023), pag. 53-64, DOI 10.1007/s00605-022-01762-6, WOS: 000849135600001, **ISSN:** 0026-9255

ARTICOLE / STUDII IN EXTENSO PUBLICATE (R, V)

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate/indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale)

(Ris1). Mircea Cimpoeas, „Finite simplicial multicomplexes”, An. St. Univ. Ovidius, seria matematica, 14(2)(2006), pag. 9-30. Zbl 1174.13039, ISSN: 1224-1784

(Ris2). Mircea Cimpoeas, „A generalization of Pardue's formula”, Bull. Math. Soc. Sci. Math. Roumanie, 49 (97)(4) (2006), pag. 315-334, Zbl 1120.13030. ISSN: 1220-3874

(Ris3). Mircea Cimpoeas, „Generic initial ideal for complete intersections of embedding dimension three with strong Lefschetz property”, Bull. Math. Soc. Sci. Math. Roumanie 50(98)(1) (2007), pag. 3-31. WOS:000255161700010, ISSN: 1220-3874

(Ris4). Mircea Cimpoeas, „A note on the generic initial ideal for complete intersections”, Bull. Math. Soc. Sci. Math. Roumanie 50(98)(2) (2007), pag. 119-130. WOS:000255161700003, ISSN: 1220-3874

(Ris5). Mircea Cimpoeas, „Regularity for certain classes of monomial ideals”, An. St. Univ. Ovidius Constanta seria matematica 15(1) (2007), pag. 33-46. Zbl 1199.13030 ISSN: 1224-1784

(Ris6). Mircea Cimpoeas, „A stable property of Borel type ideals”, Communications in Algebra 36(2) (2008), pag. 674-677. DOI:10.1080/00927870701724136, WOS:000253722000028, **ISSN:**0092-7872

(Ris7). Mircea Cimpoeas, „Some remarks on the Stanley's depth of multigraded modules”, *Le Matematiche* 63(2) (2008), pag. 165-171. Zbl 1184.13067, ISSN:0373-3505

(Ris8). Mircea Cimpoeas, „Stanley depth of complete intersection monomial ideals”, *Bull. Math. Soc. Sci. Math. Roumanie* 51(99)(3) (2008), pag. 205-211. WOS:000259388700003, ISSN:1220-3874

(Ris9). Mircea Cimpoeas, „Some remarks on Borel type ideals”, *Communications in Algebra* 37(2)(2009), pag. 724-727. DOI: 10.1080/00927870802186227, WOS:000263199400026, ISSN:0092-7872

(Ris10). Mircea Cimpoeas, „Stanley depth of monomial ideals with small number of generators”, *Central European Journal of Mathematics* 7(4) (2009), pag. 629-634. DOI: 10.2478/s11533-009-0037-0. WOS:000271396700005, ISSN: 1895-1074

(Ris11). Mircea Cimpoeas, „The Stanley conjecture on monomial almost complete intersection ideals”, *Bull. Math. Soc. Sci. Math. Roumanie* 55(103)(1) (2012), pag. 35-39. WOS:000301899300002, ISSN: 1220-3874

(Ris12). Mircea Cimpoeas, „Stanley depth of squarefree Veronese ideals”, *An. St. Univ. Ovidius Constanta seria matematica* 21(3) (2013), pag. 67-71. DOI: 10.2478/auom-2013-0043, WOS:000330136200006, ISSN: 1224-1784

(Ris13). Mircea Cimpoeas, „Stanley Depth of Quotient of Monomial Complete Intersection Ideals”, *Communications in Algebra* 40(8) (2014), pag. 2720-2731. DOI: 10.1080/00927872.2013.807814, WOS:000337684000011, ISSN: 0092-7872

(Ris14). Mircea Cimpoeas, Dumitru Stamate, „On intersection of complete intersection ideals”, *Journal of Pure and Applied Algebra*, Volume 220, Issue 11, November (2016), pag. 3702-3712. DOI: 10.1016/j.jpaa.2016.05.008, WOS:000378964200007, ISSN:0022-4049

(Ris15). Mircea Cimpoeas, „Stanley depth of the path ideal associated to a line graph”, *Mathematical Reports* vol.19(2) (2017), pag. 157-164. WOS:000402191000002, ISSN:1582-3067

(Ris16). Mircea Cimpoeas, „A class of square-free monomial ideals associated to two integer sequences”, *Communications in Algebra* Volume 46, Issue 3 (2018), pag. 1179-1187. DOI: 10.1080/00927872.2017.1339060, WOS:000429054400022, ISSN:0092-7872

(Ris17). Mircea Cimpoeas, „Stanley depth of certain classes of square-free monomial ideals”, *Politehn. Univ. Bucharest Sci. Bull. Ser. A Appl. Math. Phys.* 80, no.2 (2018), pag. 33-40. WOS:000435265100004, ISSN: 1223-7027

- (Ris18).** Mircea Cimpoeas, „On the Stanley depth of powers of some classes of monomial ideals”, Bull. Iranian Math. Soc. 44, no. 3 (2018), pag. 739-747. DOI: 10.1007/s41980-018-0049-2, WOS:000439390900014, ISSN: 1735-8515
- (Ris19).** Mircea Cimpoeas, Florin Nicolae, „On the restricted partition function”, Ramanujan J. 47, no. 3 (2018), pag. 565-588. DOI: 10.1007/s11139-017-9985-3, WOS:000449797800006, **ISSN:**1382-4090
- (Ris20).** Mircea Cimpoeas, Florin Nicolae, „Independence of Artin L-functions”, Forum Math. 31, no. 2 (2019), pag. 529-534. DOI: 10.1515/forum-2018-0185, WOS:000459863500016, **ISSN:**0933-7741
- (Ris21).** Mircea Cimpoeas, Florin Nicolae, Corrigendum to "on the restricted partition function", Ramanujan J. 49, no. 3 (2019), pag. 699-700. DOI: 10.1007/s11139-018-0133-5, WOS:000475734300015, ISSN: 1382-4090
- (Ris22).** Mircea Cimpoeas, „A note on the linear independence of a class of series of functions”, J. Anal. 27, no. 4 (2019), 1189-1205. WOS:000704302200018, ISSN:0971-3611
- (Ris23).** Mircea Cimpoeas, „Polarization and spreading of monomial ideals”, Comm. Algebra 47, no. 12 (2019), 5492-5508. DOI: 10.1080/00927872.2019.1632324, WOS:000475213600001, ISSN: 0092-7872
- (Ris24).** Mircea Cimpoeas, „Determinants with Bernoulli polynomials and the restricted partition function”, Politehn. Univ. Bucharest Sci. Bull. Ser. A Appl. Math. Phys. 81, no. 4 (2019), 39-52. WOS:000501894000004, ISSN: 1223-7027
- (Ris25).** Mircea Cimpoeas, „On the semigroup ring of holomorphic Artin L-functions”, Colloq. Math. 160, no. 2 (2020), 283-295. DOI:10.4064/cm7750-3-2019, WOS:000571751400009, ISSN:0010-1354
- (Ris26).** Mircea Cimpoeas, „On the Restricted Partition Function via Determinants with Bernoulli Polynomials”, Mediterr. J. Math. 17, no. 2 (2020), Art. 51, 19 pp. DOI: 10.1007/s00009-020-1478-8, WOS:000517191800002, ISSN:1660-5446
- (Ris27).** Mircea Cimpoeas, Florin Nicolae, „Artin L-functions of almost monomial Galois groups”, Forum Math. 32, no. 4 (2020), pag. 937-940. DOI 10.1515/forum-2019-0288, WOS:000544194200006, **ISSN:** 0933-7741
- (Ris28).** Mircea Cimpoeas, „On the Restricted Partition Function via Determinants with Bernoulli Polynomials II”, Rev. Un. Mat. Argentina 61, no. 2 (2020), 431-440 DOI: 10.33044/revuma.v61n2a15, WOS: 000613257200015, ISSN:0041-6932

(Ris29). Mircea Cimpoeas, „Two semigroup rings associated to a finite set of meromorphic functions”, Math. Slovaca 70 , no. 3 (2020), 1249-1257, DOI: 10.1515/ms-2017-0428, WOS: 000576367800018, ISSN: 0139-9918

(Ris30). Mircea Cimpoeas, „Remarks on the restricted partition function”, Math. Rep. (Bucur), 23(73), no. 4 (2021), 425-436. WOS:000731885400004, ISSN: 1582-3067

(Ris31). Mircea Cimpoeas, „A note on the number of partitions of n into k parts”, Politehn. Univ. Bucharest Sci. Bull. Ser. A Appl. Math. Phys., 84 no. 3 (2022), 131-138. WOS:000897652500013, ISSN:1223-7027

(Ris32). Mircea Cimpoeas, Alexandru Radu, „On supercharacter theoretic generalizations of monomial groups and Artin's conjecture”, Czechoslovak Math. J. 72(147), no. 4 (2022), 1065-1079. DOI:10.21136/CMJ.2022.0352-21, WOS:000877996800001, ISSN:0011-4642

(Ris33). Mircea Cimpoeas, „A note on the action of the Hecke group $H(2)$ on subsets of the form $Q^*(n)$ ”, J. Algebra Appl.22(2023), no.6, Paper No. 2350218, 5 pp., DOI 10.1142/S0219498823502183, WOS: 000849404200002, ISSN: 0219-4988

(Ris34). Mircea Cimpoeas, Adrian Gabriel Neacsu, “Geometrical isomorphisms between categories of fuzzy coverings and fuzzy partitions”, Fuzzy Sets and Systems461(2023), Paper No. 108493, 21 pp., DOI:10.1016/j.fss.2023.02.014, WOS: 001010854700001, ISSN: 0165-0114

(Ris35). Mircea Cimpoeas, „On a generalization of monomial groups”, Monatshefte fur Mathematik, Volume 202, Issue 1 (2023), 19 pp, pag. 53-64, DOI 10.1007/s00605-022-01762-6, WOS: 000849135600001, ISSN: 0026-9255

(Ris36). Mircea Cimpoeas, Alexandra Teodor, „A note on the restricted k -multipartition function”, Politehn. Univ. Bucharest Sci. Bull. Ser. A Appl. Math. Phys.85 (2023), no.3, pag. 11-18, WOS: 001052963400002, ISSN: 1223-7027

(Ris37). Mircea Cimpoeas, Alexandru Radu, „On the monoid algebra associated to the monomial characters of a finite group”, Quaest. Math.46(2023), no.10, pag.2065-2078, DOI: 10.2989/16073606.2022.2142862, WOS: 000925334400001, ISSN: 1607-3606

(Ris38). Mircea Cimpoeas, Alexandra Teodor, „A note on the number of plane partitions and r -component multipartitions of n ”, Math. Commun.29 (2024), no.1, 105–115, WOS: 001186905900005, ISSN: 1331-0623

Rns- Reviste de specialitate de circulație națională recunoscute de CNCSIS

(Rns1). Mircea Cimpoeas, „Lefschetz property of complete intersections”, Analele Universitatii din Bucuresti 58(2) (2009), pag. 125-144. ISSN: 1010-5433 (CNCSIS B+)

(Rns2). Mircea Cimpoeas, „On the algebraic properties of the ring of Dirichlet convolutions”, ROMAI J. 14 (2018), no. 2, 41–57. ISSN: 1841-5512 (CNCSIS B+)

Rno - Alte reviste de specialitate de circulație națională

(Rno1). Mircea Cimpoeas, „Several inequalities regarding Stanley depth”, Romanian journal of mathematics and computer science 2(1) (2012), pag. 28-40. Zbl 1313.13036, ISSN 2247 – 689X

(Rno2). Mircea Cimpoeas, „Vertex cover algebras of simplicial multicomplexes”, Romanian journal of mathematics and computer science 3(1) (2013), pag. 1-4. Zbl 1313.13037, ISSN 2247 – 689X

(Rno3). Mircea Cimpoeas, „On the Stanley depth of monomial ideals”, Revue Roumaine de math. pure et appliques 58(2) (2013), pag. 205-212. ISSN: 0035-3965

(Rno4). Mircea Cimpoeas, „Regularity of quasi-symbolic and bracket powers of Borel type ideals”, Romanian Journal of Mathematics and Computer Science 4(1) (2014), pag. 73-80. Zbl 1313.13028, ISSN 2247 – 689X

(Rno5). Mircea Cimpoeas, „On the Stanley depth of edge ideals of line and cyclic graphs”, Romanian Journal of Mathematics and Computer Science 5(1) (2015), pag. 70-75. Zbl. 1363.13008, ISSN 2247 – 689X

(Rno6). Mircea Cimpoeas, „On the quasi-depth of squarefree monomial ideals and the sdepth of the monomial ideal of independent sets of a graph”, An. Stiint. Univ. Al. I. Cuza Iasi Mat., LXII(2) vol 3 (2016), pag. 863-870. Zbl 1389.13036, ISSN: 1221-8421

(Rno7). Mircea Cimpoeas, „On The Stanley Depth Of The Path Ideal Of A Cycle Graph”, Romanian Journal of Mathematics and Computer Science 6(2) (2016), pag. 116-120. Zbl 1424.13015, ISSN 2247 – 689X

(Rno8). Mircea Cimpoeas, „On the Stanley depth of a special class of Borel type ideals”, An. Stiint. Univ. Al. I. Cuza Iasi. Mat. (N.S.) 64, no. 2 (2018), pag. 369-372. ISSN: 1221-8421

(Rno9). Mircea Cimpoeas, „A zeta-Barnes function associated to graded modules”, Rom. J. Math. Comput. Sci. 9 , no. 1 (2019), 56-65. MR3999601, ISSN 2247 – 689X

TEZA DE DOCTORAT (T)

Titlul tezei: *Contributions in combinatorics in commutative algebra* (2007)
Universitatea București, Conducător științific: Prof. Univ. Dr. Dorin Popescu.

TEZA DE ABILITARE

Titlul tezei: *Combinatorial aspects în algebra and number theory* (2020)
Școala de Studii Avansate a Academiei Române (SCOSAAR)

CONTRACTE DE CERCETARE (P)

P – Proiecte de cercetare-dezvoltare – inovare obtinute prin competitie, pe bază de contract/grant, in tara/strainatate

Colaborator:

(P1) 2007-2011 Grant ID-PCE 2007-51, Metode combinatorice, omologice si aritmetice in studiul idealelor polinomiale. (director Iustin Coanda)

(P2) 2012-2016 Grant ID-PCE 2011-1023, Algorithmic and theoretical methods for studying monomial and binomial ideals with applications in combinatorics, commutative algebra and graph theory. (director Dorin Popescu)

(P3) 2022-2024 Grant PN-III-P1-1.1-TE-2021-1633, Noi rezultate pentru algebre definite combinatorial. (director Dumitru Stamate)