

Lucrări științifice

1. Marian Aprodu, Vasile Brinzanescu. *Fibrés vectoriels de rang deux sur les surfaces réglées*. **Comptes Rendus de l'Académie des Sciences - Series I - Mathematics** 323 (1996) 627-630.
2. Marian Aprodu, Vasile Brinzanescu. *Numerical invariants and stability of 2-vector bundles over ruled surfaces*. **Analele Științifice ale Universității Ovidius Constanța** 5 No. 2 (1997) 9-16.
3. Marian Aprodu, Vasile Brinzanescu. *Stable rank-2 vector bundles over ruled surfaces*. **Comptes Rendus de l'Académie des Sciences - Series I - Mathematics** 325 (1997) 295-300, DOI:10.1016/S0764-4442(97)83959-6
4. Marian Aprodu, Vasile Brinzanescu. *Existence of stable rank-2 vector bundles over ruled surfaces*. Collection of papers in memory of Martin Jurchescu. **Revue Roumaine de Mathématiques Pures et Appliquées** 43 No. 1-2 (1998) 47-56.
5. Marian Aprodu. *An Appell-Humbert theorem for hyperelliptic surfaces*. **Journal of Mathematics of Kyoto University (JKYAMZ)** 38 No. 1 (1998) 101-121, DOI:10.1215/kjm/1250518162
6. Marian Aprodu, Vasile Brinzanescu. *Moduli spaces of vector bundles over ruled surfaces*. **Nagoya Mathematical Journal** 154 (1999) 111-122, DOI:10.1017/S0027763000025332
7. Monica Alice Aprodu, Marian Aprodu. *Implicitly defined harmonic PHH submersions*. **Manuscripta Mathematica** 100 (1999) 103-121, DOI:10.1007/s002290050198
8. Monica Alice Aprodu, Marian Aprodu, Vasile Brinzanescu. *A class of harmonic maps and minimal submanifolds*. **International Journal of Math.** 11 No. 9 (2000) 1177-1191, DOI:10.1142/S0129167X0000057X
9. Marian Aprodu. *On the vanishing of higher syzygies of curves*. **Mathematische Zeitschrift** 241 No. 1 (2002) 1-15, DOI:10.1007/s002090100
10. Marian Aprodu, Vasile Brinzanescu, Matei Toma. *Holomorphic vector bundles over primary Kodaira surfaces*. **Mathematische Zeitschrift** 242 No. 1 (2002) 63-73, DOI:10.1007/s002090100307
11. Marian Aprodu, Vasile Brinzanescu. *On the holomorphic rank-2 vector bundles with trivial discriminant over non-Kaehler elliptic bundles*. **Journal of Mathematics of Kyoto University (JKYAMZ)** 42 No. 4 (2002) 617-623, DOI:10.1215/kjm/1250283829
12. Marian Aprodu. *On the vanishing of higher syzygies of curves. II*. **Mathematische Zeitschrift** 243 No. 4 (2003) 775-778, DOI:10.1007/s00209-002-0467-x
13. Marian Aprodu, Claire Voisin. *Green-Lazarsfeld's conjecture for generic curves of large gonality*. **Comptes Rendus Mathématique** 336 No. 4 (2003) 335-339, DOI:10.1016/S1631-073X(03)00062-1

14. Marian Aprodu, Matei Toma. *Une note sur les fibrés holomorphes non-filtrables*. **Comptes Rendus Mathématique** 336 No. 7 (2003) 581-584, DOI:10.1016/S1631-073X(03)00139-0
15. Marian Aprodu, Jan Nagel. *A Lefschetz type result for Koszul cohomology*. **Manuscripta Mathematica** 114 (2004) 423-430, DOI:10.1007/s00229-004-0467-8
16. Marian Aprodu. *Green-Lazarsfeld gonality conjecture for a generic curve of odd genus*. **International Mathematics Research Notices (IMRN)** 63 (2004) 3409-3414, DOI:10.1155/S107379280414035X
17. Marian Aprodu. *On Green and Green-Lazarsfeld conjectures for generic d -gonal curves*. **Oberwolfach Reports** No. 7 (2005) 427-430.
18. Marian Aprodu. *Remarks on syzygies of d -gonal curves*. **Mathematical Research Letters** 12 No. 3 (2005) 387-400 DOI:10.4310/MRL.2005.v12.n3.a9
19. Marian Aprodu. *Geometry of curves and Koszul cohomology*. **Modern trends in geometry and topology**, 37-45, Cluj Univ. Press, Cluj-Napoca, 2006, ISBN: 973-610-429-X, 978-973-610-429-9.
20. Marian Aprodu, Jan Nagel. *Non-vanishing for Koszul cohomology of curves*. **Commentarii Mathematici Helvetici** 82 No. 3 (2007) 617-628, DOI:10.4171/CMH/104
21. Marian Aprodu. *Brill-Noether theory for curves on $K3$ surfaces*. **Contemporary geometry and topology and related topics**, 1-12, Cluj Univ. Press, Cluj-Napoca, 2008, ISBN: 978-973-610-725-2.
22. Marian Aprodu, Stefan Kebekus, Thomas Peternell. *Galois coverings and endomorphisms of projective varieties*. **Mathematische Zeitschrift** 260 (2008) no.2, 431-449, DOI:10.1007/s00209-007-0282-5
23. Marian Aprodu, Gianluca Pacienza. *The Green Conjecture for Exceptional Curves on a $K3$ Surface*. **International Mathematics Research Notices (IMRN)** (2008) nr. 14 Vol. 2008, article ID rnn043, 25 pages - Corrigendum and Addendum, **International Mathematics Research Notices** (2012) nr. 5, 1195-1197, DOI:10.1093/imrn/rnn043
24. Marian Aprodu, Vasile Brinzanescu. *Beilinson type spectral sequences on scrolls*. Moduli spaces and vector bundles. 426-436, **London Mathematical Society Lecture Note Series** 359, Cambridge Univ. Press, Cambridge, 2009, DOI:10.1017/CBO9781139107037.014
25. Marian Aprodu, Daniel Naie. *Enriques diagrams and log-canonical thresholds of curves on smooth surfaces*. **Geometriae Dedicata** 146 (2010) 43-66, DOI:10.1007/s10711-009-9425-7
26. Marian Aprodu, Gavril Farkas. *Koszul cohomology and applications to moduli*. in: Grassmannians, vector bundles and moduli spaces, **Clay Mathematics Proceedings**, AMS, Vol. 14 (2011) 25-50, ISBN: 978-0-8218-5205-7
27. Marian Aprodu, Gavril Farkas. *Green's Conjecture for curves on arbitrary $K3$ surfaces*. **Compositio Mathematica** 147 (2011) 839-851, DOI:10.1112/S0010437X10005099
28. Marian Aprodu, Marius Marchitan. *A note on vector bundles on Hirzebruch surfaces*. **Comptes Rendus Mathématique** 349, no 11-12 (2011) 687-690, DOI:10.1016/j.crma.2011.04.013

29. Marian Aprodu, Vasile Brinzanescu, Marius Marchitan. *Rank-two vector bundles on Hirzebruch surfaces*. **Central European Journal of Mathematics** 10 No. 4 (2012) 1321-1330, DOI:10.2478/s11533-012-0046-2
30. Marian Aprodu, Gavril Farkas. *Green's Conjecture for general covers*. **Contemporary Mathematics**, AMS, Vol. 564 (2012) 211-226, DOI:10.1090/conm/564
31. Marian Aprodu, Ruxandra Moraru, Matei Toma. *Two-dimensional moduli spaces of vector bundles over Kodaira surfaces*. **Advances in Mathematics** 231 (2012) 1202-1215, DOI:10.1016/j.aim.2012.06.024
32. Marian Aprodu. *Lazarsfeld-Mukai bundles and applications*. in: Peeva, Irena (ed.), **Commutative algebra**. Expository papers dedicated to David Eisenbud on the occasion of his 65th birthday. New York, NY: Springer. 1-23, 2013, DOI:10.1007/978-1-4614-5292-8_1
33. Marian Aprodu, Matei Toma. *Boundedness for some rationally connected threefolds in \mathbb{P}^6* . **Communications in Algebra**, 42:9 (2014) 3876-3882, DOI:10.1080/00927872.2013.796963
34. Marian Aprodu. *Lazarsfeld-Mukai bundles and applications. II*. in: **Bridging Algebra, Geometry, and Topology**, Springer Proceedings in Mathematics & Statistics, Vol. 96, Ibadula, Denis, Veys, Willem (Eds.) 2014, 11-20 (Proceedings of the Conference "Experimental and Theoretical Methods in Algebra, Geometry and Topology", Eforie Nord, June 21-24, 2013), DOI:10.1007/978-3-319-09186-0_2
35. Marian Aprodu. *Ulrich bundles on K3 surfaces*. **Oberwolfach Reports** 11:3 (2014) DOI: 10.4171/OWR/2014/31
36. Marian Aprodu. *Polynomial equations and vector bundles*. **On Form and Pattern**, Ed. Acad. Române (2015) 77-82.
37. Monica Alice Aprodu, Marian Aprodu. *Holomorphic vector bundles on Kaehler manifolds and totally geodesic foliations on Euclidean open domains*. **Differential Geometry and its Applications** 39 (2015) 10-19, DOI:10.1016/j.difgeo.2015.01.002
38. Marian Aprodu, Edoardo Sernesi. *Secant spaces and syzygies of special line bundles on curves*. **Algebra & Number Theory** 9:3 (2015) 585-600, DOI:10.2140/ant.2015.9.585
39. Marian Aprodu, Marius Marchitan. *Prioritary omalous bundles on Hirzebruch surfaces*. **Journal of Geometry and Physics** 99 (2016) 1-9, DOI:10.1016/j.geomphys.2015.09.004
40. Marian Aprodu, Luigi Lombardi. *On the vanishing of Koszul cohomology of abelian varieties*. **Bulletin of the London Mathematical Society** 48:2 (2016) 280-290, DOI:10.1112/blms/bdw004
41. Marian Aprodu, Gavril Farkas, Angela Ortega. *Restricted Lazarsfeld-Mukai bundles and canonical curves*. **Advanced Studies in Pure Mathematics** (Math. Soc. Japan) 69 (2016) 303-322, Development of Moduli Theory, volume on the occasion of Mukai's 60th birthday, ISBN:978-4-86497-032-7.
42. Marian Aprodu, Edoardo Sernesi. *Excess dimension for secant loci in symmetric products of curves*. **Collectanea Mathematica**, 68:1 (2017) 1-7, DOI:10.1007/s13348-016-0166-2

43. Marian Aprodu, Yeongrak Kim. *Ulrich line bundles on Enriques surfaces with a polarization of degree four*. **Annali dell'Universita di Ferrara**, 63:1 (2017) 9-23, volume dedicated to the memory of A. Lascu, DOI:10.1007/s11565-017-0269-z
44. Marian Aprodu, Gavril Farkas, Angela Ortega. *Minimal resolutions, Chow forms of K3 surfaces and Ulrich bundles*. **Journal für die reine und angewandte Mathematik**, 730 (2017) 225-250, DOI:10.1515/crelle-2014-0124
45. Marian Aprodu, Laura Costa, Rosa Maria Miro-Roig. *Ulrich bundles on ruled surfaces*. **Journal of Pure and Applied Algebra**, 222:1 (2018) 131-138, DOI:10.1016/j.jpaa.2017.03.007
46. Marian Aprodu, Laura Costa, Rosa Maria Miro-Roig. *Rank two vector bundles on non-minimal ruled surfaces*. **Transactions of the American Mathematical Society**, 370 (2018) 3913-3929, DOI:10.1090/tran/7062
47. Marian Aprodu, Andrea Bruno, Edoardo Sernesi. *A characterization of bielliptic curves via syzygy schemes*. **Journal of Pure and Applied Algebra** 223 (2019) 4690-4700, DOI:10.1016/j.jpaa.2019.02.011
48. Marian Aprodu, Sukmoon Huh, Francesco Malaspina, Joan Pons-Llopis. *Ulrich bundles on smooth projective varieties of minimal degree*. **Proceedings of the American Mathematical Society**, Volume 147, Number 12, (2019) 5117-5129, DOI:10.1090/proc/14640
49. Marian Aprodu, Gavril Farkas, Stefan Papadima, Claudiu Raicu, Jerzy Weyman. *Koszul modules and Green's conjecture*. **Inventiones Mathematicae**, Volume 218, Issue 3 (2019) 657-720, DOI:10.1007/s00222-019-00894-1
50. Marian Aprodu, Gianfranco Casnati, Laura Costa, Rosa Maria Miro-Roig, Monserrat Teixidor i Bigas. *Theta divisors and Ulrich bundles on geometrically ruled surfaces*. **Annali di Matematica Pura ed Applicata**, Volume 199 (2020) 199-216, DOI:10.1007/s10231-019-00873-6
51. Marian Aprodu, Yeongrak Kim. *On the Borisov-Nuer conjecture and the image of the Enriques-to-K3 map*. **Mathematische Nachrichten**, Volume 293, Issue 6 (2020) 1044-1052, DOI:10.1002/mana.201900226
52. Marian Aprodu, Victor Vuletescu. *Indecomposable filtrable vector bundles on Oeljeklaus-Toma manifolds*. **Revue Roumaine de Mathématiques Pures et Appliquées**, 65 No. 3 (2020) 227-234, Special issue dedicated to Professor Vasile Brînzănescu on his 75th birthday (Guest Editor: Liviu Ornea)
53. Marian Aprodu, Indranil Biswas, Sorin Dumitrescu, Sebastian Heller. *On the monodromy map for the logarithmic differential systems*, preprint arXiv:2201.04095, acceptat la **Bulletin de la Société Mathématique de France**.
54. Marian Aprodu, Gavril Farkas, Stefan Papadima, Claudiu Raicu, Jerzy Weyman. *Topological invariants of groups and Koszul modules*. **Duke Mathematical Journal**, Advance Publication 1-34 (2022), DOI:10.1215/00127094-2022-0010.
55. Marian Aprodu, Gavril Farkas, Claudiu Raicu, Jerzy Weyman. *Koszul modules with vanishing resonance in algebraic geometry*. preprint arXiv:2201.00839.