

Marian Aprodu's publication list

Scientific papers

1. Marian Aprodu, Gavril Farkas, Stefan Papadima, Claudiu Raicu, Jerzy Weyman. Topological invariants of groups and Koszul modules. preprint **arXiv:180601702**.
2. Marian Aprodu, Andrea Bruno, Edoardo Sernesi. A characterization of bielliptic curves by syzygy schemes. preprint **arxiv:1708.08056**.
3. Marian Aprodu, Sukmoon Huh, Francesco Malaspina, Joan Pons-Llopis. Ulrich bundles on smooth projective varieties of minimal degree. preprint **arXiv:1705.07790**.
4. Marian Aprodu, Laura Costa, Rosa Maria Miro-Roig. Rank-two vector bundles on nonminimal ruled surfaces. **Trans. American Math. Soc.** 370 (2018) 3913-3929.
5. Marian Aprodu, Laura Costa, Rosa Maria Miro-Roig. Ulrich bundles on ruled surfaces. **J. Pure Appl. Algebra**, 222:1 (2018) 131-138.
6. Marian Aprodu, Gavril Farkas, Angela Ortega. Minimal resolutions, Chow forms of K3 surfaces and Ulrich bundles. **Journal fuer die reine und angew. Mathematik** 730 (2017) 225-250.
7. Marian Aprodu, Edoardo Sernesi. Excess dimension for secant loci in symmetric products of curves. **Collectanea Math.** 68:1 (2017) 1-7
8. Marian Aprodu, Yeongrak Kim. Ulrich line bundles on Enriques surfaces with a polarization of degree four. **Ann. U. Ferrara**, 63:1 (2017) 9-23, volume dedicated to the memory of A. Lascu.
9. Marian Aprodu, Luigi Lombardi. On the vanishing of Koszul cohomology of abelian varieties. **Bull. London Math. Soc.** 48:2 (2016), 280-290.
10. Marian Aprodu, Gavril Farkas, Angela Ortega. Restricted Lazarsfeld-Mukai bundles and canonical curves. **Advanced Studies in Pure Mathematics** (Math. Soc. Japan) 69 (2016), on the occasion of Mukai's 60th birthday, 303-322.
11. Marian Aprodu, Marius Marchitan. Priority omalous bundles on Hirzebruch surfaces. **Journal of Geom. and Physics** 99 (2016), 1-9
12. Marian Aprodu, Edoardo Sernesi. Secant spaces and syzygies of special line bundles on curves. **Algebra & Number Theory** 9:3 (2015) 585-600
13. Monica Alice Aprodu, Marian Aprodu. Holomorphic vector bundles on Kaehler manifolds and totally geodesic foliations on Euclidean open domains. **Diff. Geom. and its Appl.** 39 (2015) 10-19.
14. Marian Aprodu. Polynomial equations and vector bundles. **On Form and Pattern**, Ed. Acad. Române (2015) 77-82.
15. Marian Aprodu. Ulrich bundles on K3 surfaces. **Oberwolfach Reports** 11:3 (2014).

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16. 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.
17. Marian Aprodu, Matei Toma. Boundedness for some rationally connected threefolds in P^6 . **Comm. in Algebra**, 42:9 (2014) 3876-3882.
18. 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.
19. Marian Aprodu, Ruxandra Moraru, Matei Toma. Two-dimensional moduli spaces of vector bundles over Kodaira surfaces. **Advances in Math.** 231 (2012) 1202-1215.
20. Marian Aprodu, Gavril Farkas. Green's Conjecture for general covers. **Contemporary Math.**, AMS, Vol. 564 (2012), 211-226.
21. Marian Aprodu, Vasile Brinzanescu, Marius Marchitan. Rank-two vector bundles on Hirzebruch surfaces. **Central European J. Math.** 10 No. 4 (2012) 1321-1330.
22. Marian Aprodu, Marius Marchitan. A note on vector bundles on Hirzebruch surfaces. **C. R. Acad. Sci. Paris Ser. I Math.** 349, no 11-12 (2011), 687-690.
23. Marian Aprodu, Gavril Farkas. Green's Conjecture for curves on arbitrary K3 surfaces. **Compositio Math.** 147 (2011), 839-851.
24. 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.
25. Marian Aprodu, Daniel Naie. Enriques diagrams and log-canonical thresholds of curves on smooth surfaces. **Geometriae Dedic.** 146 (2010), 43-66.
26. Marian Aprodu, Vasile Brinzanescu. Beilinson type spectral sequences on scrolls, Moduli spaces and vector bundles. 426-436, London Math. Soc. Lecture Note Ser. 359, **Cambridge Univ. Press**, Cambridge, 2009.
27. Marian Aprodu, Gianluca Pacienza. The Green Conjecture for Exceptional Curves on a K3 Surface. **Internat. Math. Res. Notices** (IMRN) (2008) nr. 14 Vol. 2008, article ID rnn043, 25 pages - Corrigendum and Addendum, *Internat. Math. Res. Notices* (2012) nr. 5, 1195-1197.
28. Marian Aprodu, Stefan Kebekus, Thomas Peternell. Galois coverings and endomorphisms of projective varieties. **Math. Zeitschrift** 260 (2008), no.2, 431-449.
29. 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.
30. Marian Aprodu, Jan Nagel. Non-vanishing for Koszul cohomology of curves. **Commentarii Math. Helvetici** 82 No. 3 (2007) 617-628.

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31. Marian Aprodu. Geometry of curves and Koszul cohomology. Modern trends in geometry and topology, 37-45, **Cluj Univ. Press**, Cluj-Napoca, 2006.
32. Marian Aprodu. On Green and Green-Lazarsfeld conjectures for generic d-gonal curves. **Oberwolfach Reports** No. 7 (2005) 427-430.
33. Marian Aprodu. Remarks on syzygies of d-gonal curves. **Mathematical Res. Letters** 12 No. 3 (2005) 387-400.
34. Marian Aprodu. Green-Lazarsfeld gonality conjecture for a generic curve of odd genus. **Internat. Math. Res. Notices** (IMRN) 63 (2004) 3409-3414.
35. Marian Aprodu, Jan Nagel. A Lefschetz type result for Koszul cohomology. **Manuscripta Math.** 114 (2004) 423-430.
36. Marian Aprodu, Matei Toma. Une note sur les fibrés holomorphes non-filtrables. **C. R. Acad. Sci. Paris** 336 No. 7 (2003) 581-584.
37. Marian Aprodu, Claire Voisin. Green-Lazarsfeld's conjecture for generic curves of large gonality. **C. R. Acad. Sci. Paris** 336 No. 4 (2003) 335-339.
38. Marian Aprodu. On the vanishing of higher syzygies of curves. II. **Math. Zeitschrift** 243 No. 4 (2003) 775-778.
39. Marian Aprodu, Vasile Brinzanescu. On the holomorphic rank-2 vector bundles with trivial discriminant over non-Kaehler elliptic bundles. **J. Math. Kyoto Univ.*** (JKYAMZ) 42 No. 4 (2002) 617-623.
40. Marian Aprodu, Vasile Brinzanescu, Matei Toma. Holomorphic vector bundles over primary Kodaira surfaces. **Math. Zeitschrift** 242 No. 1 (2002) 63-73.
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42. Monica Alice Aprodu, Marian Aprodu, Vasile Brinzanescu. A class of harmonic maps and minimal submanifolds. **International J. Math.** 11 No. 9 (2000) 1177-1191
43. Monica Alice Aprodu, Marian Aprodu. Implicitly defined harmonic PHH submersions. **Manuscripta Math.** 100 (1999) 103-121.
44. Marian Aprodu, Vasile Brinzanescu. Moduli spaces of vector bundles over ruled surfaces. **Nagoya Math. J.** 154 (1999) 111-122.
45. Marian Aprodu. An Appell-Humbert theorem for hyperelliptic surfaces. **J. Math. Kyoto Univ.*** (JKYAMZ) 38 No. 1 (1998) 101-121.
46. Marian Aprodu, Vasile Brinzanescu. Existence of stable rank-2 vector bundles over ruled surfaces. Collection of papers in memory of Martin Jurchescu. **Rev. Roumaine Math. Pures Appl.** 43 No. 1-2 (1998) 47-56.

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47. Marian Aprodu, Vasile Brinzanescu. Stable rank-2 vector bundles over ruled surfaces. **C. R. Acad. Sci. Paris** 325 (1997) 295-300.

48. Marian Aprodu, Vasile Brinzanescu. Numerical invariants and stability of 2-vector bundles over ruled surfaces. **An. St. Univ. Ovidius Constanta** 5 No. 2 (1997) 9-16.

49. Marian Aprodu, Vasile Brinzanescu. Fibrés vectoriels de rang deux sur les surfaces réglées. **C. R. Acad. Sci. Paris** 323 (1996) 627-630.

Monographs

1. Marian Aprodu, Jan Nagel. Koszul Cohomology and Algebraic Geometry. University Lecture Series, vol. 52, 2010, AMS, 125 pp, ISBN-10: 0-8218-4964-6,

Textbooks

1. Marian Aprodu. Noțiuni de Geometrie Algebrică. Ed. Fundației Univ. "Dunărea de Jos" Galați, 2008, ISBN: 978-973-627-425-1.

2. Marian Aprodu. Geometria Varietăților Torice. Ed. Acad. Române, 2008, ISBN: 978-973-27-1697-7.

*Since **J. Math. Kyoto Univ.** has been named **Kyoto J. Math.**, see <https://www.math.kyoto-u.ac.jp/journal/>