

Publication List

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May 23, 2025

available online on the Website: <https://sites.google.com/site/giulioperuginelli/>

- PhD Thesis in Mathematics, University of Pisa, Italy (2008).
Title: "Integer values of polynomials".
available online at: <http://etd.adm.unipi.it/theses/available/etd-11282008-095329/>
- 1. *Parametrizing over \mathbb{Z} integral values of polynomials over \mathbb{Q}* , with U. Zannier, *Comm. Algebra*, 38 (1), 119–130, 2010.
DOI: <http://dx.doi.org/10.1080/00927870902855564>.
- 2. *On some notions of good reduction for endomorphisms of the projective line*, with J.-K. Canci and D. Tossici, *Manuscripta Math.* 141 (2013), no. 1-2, 315-331.
DOI: <http://dx.doi.org/10.1007/s00229-012-0573-y>
- 3. *Primary decomposition of the ideal of polynomials whose fixed divisor is divisible by a prime power*,
J. Algebra 398 (2014), 227-242,
DOI: <http://dx.doi.org/10.1016/j.jalgebra.2013.09.016>
- 4. *Integer-valued polynomials over matrices and divided differences*,
Monatsh. Math. 173 (2014), no. 4, 559-571.
DOI: <http://dx.doi.org/10.1007/s00605-013-0519-9>.
- 5. *Integral-valued polynomials over sets of algebraic integers of bounded degree*,
J. Number Theory 137 (2014) 241-255.
DOI: <http://dx.doi.org/10.1016/j.jnt.2013.11.007> (**Open Access**)
- 6. *Factorization of integer-valued polynomials with square-free denominator*,
Comm. Algebra, 43 (1), 197-211, 2015.
DOI <http://dx.doi.org/10.1080/00927872.2014.897563>
- 7. *The ring of polynomials integral-valued over a finite set of integral elements*,
J. Commut. Algebra 8 (2016), no. 1, 113-141.
DOI: <http://dx.doi.org/10.1216/JCA-2016-8-1-113>
Arxiv: <http://arxiv.org/abs/1411.1382>

8. *Properly Integral Polynomials over the Ring of Integer-valued Polynomials on a Matrix Ring*, with N. J. Werner,
J. Algebra 460 (2016) 320-339.
DOI: <http://dx.doi.org/10.1016/j.jalgebra.2016.04.016> (**Open Access**)
Arxiv: <http://arxiv.org/abs/1506.09083>

9. *Polynomial overrings of $\text{Int}(\mathbb{Z})$* , with J.-L. Chabert,
J. Commut. Algebra 8 (2016), no. 1, 1-28.
DOI: <http://dx.doi.org/10.1216/JCA-2016-8-1-1>
Arxiv: <http://arxiv.org/abs/1503.06035>

10. *The lattice of primary ideals of orders in quadratic number fields*, with P. Zanardo,
Int. J. Number Theory 12 (2016), no. 7, 2025-2040.
DOI:<http://dx.doi.org/10.1142/S1793042117500737> (**Open Access**)
Arxiv: <http://arxiv.org/abs/1503.06033>

11. *Non-triviality conditions for Integer-valued Polynomial Rings on Algebras*, with N. J. Werner,
Monatsh. Math. 183 (2017), no. 1, 177-189.
DOI: <http://dx.doi.org/10.1007/s00605-016-0951-8>
Arxiv: <https://arxiv.org/abs/1604.06912>

12. *Galois structure on integral-valued polynomials*, with Bahar Heidaryan, Matteo Longo,
J. Number Theory 171 (2017), 198-212.
DOI: <http://dx.doi.org/10.1016/j.jnt.2016.07.007> (**Open Access**)
Arxiv: <http://arxiv.org/abs/1511.01295>

13. *Transcendental extensions of a valuation domain of rank one*,
Proc. Amer. Math. Soc. 145 (2017), no. 10, 4211-4226.
Arxiv: <https://arxiv.org/abs/1611.00177>

14. *Adelic versions of the Weierstrass approximation Theorem*, with J.-L. Chabert,
J. Pure Appl. Algebra 222 (2018), no. 3, 568-584.
DOI: <http://dx.doi.org/10.1016/j.jpaa.2017.04.020>
Arxiv: <http://arxiv.org/abs/1511.03465>

15. *Decomposition of Integer-valued polynomial algebras*, with N. J. Werner,
J. Pure Appl. Algebra 222 (2018), no. 9, 2562-2579.
Arxiv: <http://arxiv.org/abs/1604.08337>

16. *Maximal Subrings and Covering Numbers of Finite Semisimple Rings* with N. J. Werner,
Comm. Algebra, 46 (2018), no. 11, 4724-4738.
DOI: <https://doi.org/10.1080/00927872.2018.1455099>

17. *Prüfer intersection of valuation domains of a field of rational functions*,
J. Algebra 509 (2018), 240-262.
DOI: <https://doi.org/10.1016/j.jalgebra.2018.05.012>
Arxiv: <https://arxiv.org/abs/1711.05485>

18. *The Zariski-Riemann space of valuation domains associated to pseudo-convergent sequences*,
with D. Spirito, Trans. Amer. Math. Soc. 373 (2020), no. 11, 7959-7990.
DOI: <https://doi.org/10.1090/tran/8185> (Open Access)
ArXiv: <https://arxiv.org/abs/1809.09539>

19. *Extending valuations to the field of rational functions using pseudo-monotone sequences*, with D. Spirito, *J. Algebra* 586 (2021), 756-786.
DOI: <https://doi.org/10.1016/j.jalgebra.2021.07.004> (Open Access)
ArXiv: <https://arxiv.org/abs/1711.05485>
20. *The polynomial closure is not topological*, with D. Spirito, *J. Pure Appl. Algebra* 226 (2022), no. 11, 107133.
DOI: <https://doi.org/10.1016/j.jpaa.2022.107133> (Open Access)
ArXiv: <https://arxiv.org/abs/2107.02552>
21. *Metrizability of spaces of valuation domains associated to pseudo-convergent sequences*, with D. Spirito, *J. Algebra Appl.* 22 (2023), no. 2, 2350046.
DOI: <https://doi.org/10.1142/S0219498823500469> (Open Access)
ArXiv: <https://arxiv.org/abs/2011.13639>
22. *Polynomial Dedekind domains with finite residue fields of prime characteristic*, *Pacific J. Math.* 324 (2023), no. 2, 333-351.
DOI: <https://doi.org/10.2140/pjm.2023.324.333> (Open Access)
23. *Stacked Pseudo-Convergent Sequences and Polynomial Dedekind Domains*, to appear in *Algebra Number Theory* (2025). arXiv: <https://arxiv.org/abs/2303.11740>.
24. *On the Lucas and Lehmer sequences in Dedekind domains*, with X. Li and M. Sha, to appear in *Publicaciones Mathematicae Debrecen* 2025. Arxiv: <https://arxiv.org/abs/2006.09880>

Conference Proceedings (with referee)

25. *Parametrization of integral values of polynomials*, Actes des rencontres du CIRM, 2 no. 2: Third International Meeting on Integer-Valued Polynomials, p. 41-49, 2010.
DOI: <http://dx.doi.org/10.5802/acirm.32>.
26. *Integral closure of rings of integer-valued polynomials on algebras*, with Nicholas J. Werner (<https://sites.google.com/site/njwernermath/>), in “Commutative Algebra: Recent Advances in Commutative Rings, Integer-Valued Polynomials”, M. Fontana, S. Frisch and S. Glaz (editors), Springer 2014, pp 293-305.
ISBN 978-1-4939-0924-7
DOI: http://dx.doi.org/10.1007/978-1-4939-0925-4_17
<http://www.springer.com/mathematics/algebra/book/978-1-4939-0924-7>.
27. *Idempotent pairs and PRINC domains*, with L. Salce and P. Zanardo, in “Multiplicative Ideal Theory and Factorization Theory - Commutative and Non-Commutative Perspectives”, S. Chapman, M. Fontana, A. Geroldinger, and B. Olberding, Editors, Springer Verlag Publisher (2016), pp. 309-322. ISBN (Hardcover): 978-3-319-38853-3.
DOI: http://dx.doi.org/10.1007/978-3-319-38855-7_13
<http://www.springer.com/it/book/9783319388533>
Arxiv: <http://arxiv.org/abs/1412.8089>