

## PUBLICATIONS OF JENŐ SZIGETI

- [1] G. Greve, J. Szigeti, W. Tholen: *Lifting tensorproducts along non-adjoint functors*, Cahiers de Topologie et Geometrie Differentielle XXIII-4 (1982), 363-378.  
(Université de Picardie Jules Verne, Amiens)
- [2] J. Szigeti: *On limits and colimits in the Kleisli-category*, Cahiers de Topologie et Geometrie Differentielle XXIV-4 (1983), 381-391.  
(Université de Picardie Jules Verne, Amiens)
- [3] J. Szigeti: *On limits and colimits in the Kleisli-category II.*, Seminarberichte, Fb. Mathematik (Fernuniversität Hagen), Band 18 (1984)  
(Fakultät für Mathematik und Informatik der FernUniversität in Hagen)
- [4] J. Szigeti: *U-lifters of single morphisms in the category of F-algebras*, Publicationes Mathematicae Tom.32 (1985), 37-41.  
(Institute of Mathematics, University of Debrecen)
- [5] J. Szigeti: *A note on reflective subcategories defined by partial algebras*, Commentationes Mathematicae Univ. Carolinae 25,2 (1984), 319-323.  
(Faculty of Mathematics and Physics of Charles University, Prague)
- [6] J. Szigeti: *Homological methods in the solution of certain functional equations*, Aequationes Mathematicae 31 (1986), 310-314.  
(Birkhäuser, Basel)
- [7] J. Szigeti, B. Nagy: *Linear extensions of partial orders preserving monotonicity*, Order 4 (1987), 31-35.  
(Springer)
- [8] J. Szigeti: *On the intersection of monotonicity preserving linear extensions*, Acta Mathematica Hungarica 55, 1-2 (1990), 161-163.  
(Akadémiai Kiadó, Springer)
- [9] J. Szigeti: *On well ordered mono-unary algebras*, Order 7 (1990), 77-81.  
(Springer)
- [10] Gy. Maurer, J. Szigeti: *On rings satisfying certain polynomial identities*, Mathematica Pannonica I/2 (1990), 45-49.  
(Johannes Kepler Universität, Linz)
- [11] J. Szigeti, Zs. Tuza, G. Révész: *Eulerian polynomial identities on matrix rings*, Journal of Algebra Vol.161 No.1 (1993), 90-101.  
(Elsevier)

- [12] J. Szigeti: *Permanental polynomial identities on matrix rings*,  
 Journal of Algebra Vol.165 No.2 (1994), 389-393.  
 (Elsevier)
- [13] P. Körtesi, J. Szigeti: *On permanental polynomial identities over matrix rings*,  
 Communications in Algebra Vol.22 No.1 (1994), 159-171.  
 (Taylor&Francis)
- [14] G. Révész, J. Szigeti: *Eulerian trace identities*,  
 Discrete Mathematics Vol.147 (1995), 313-319.  
 (Elsevier)
- [15] J. Szigeti: *Eulerian \*-polynomial identities over matrix algebras*,  
 Communications in Algebra Vol.23 No.1 (1995), 245-253.  
 (Taylor&Francis)
- [16] G. Révész, J. Szigeti: *Identities of symmetric and skew-symmetric matrices in characteristic p*,  
 Rendiconti del Circolo Matematico di Palermo Serie II, Tomo XLIV (1995), 94-112.  
 (Springer)
- [17] J. Szigeti: *New determinants and the Cayley-Hamilton theorem for matrices over Lie-nilpotent rings*,  
 Proceedings of the American Mathematical Society Vol.125 No.8 (1997), 2245-2254.  
 (American Mathematical Society, Providence)
- [18] J. Szigeti, Zs. Tuza: *Solving systems of linear equations over Lie-nilpotent rings*,  
 Linear and Multilinear Algebra Vol.42 (1997), 43-51.  
 (Taylor&Francis)
- [19] J. Szigeti, Zs. Tuza: *Generalized colorings and avoidable orientations*,  
 Discussiones Mathematicae Graph Theory Vol.17 (1997), 137-145.  
 (Faculty of Mathematics, University of Zielona Gora)
- [20] J. Szigeti: *Idempotent ideals in Lie nilpotent rings*,  
 Methods in Ring Theory (Eds. V. Drensky, A. Giambreno, S. Sehgal),  
 Lecture Notes in Pure and Applied Mathematics, No. 198,  
 Marcel Dekker, New York 1998, 287-292.
- [21] J. Szigeti: *On the characteristic polynomial of supermatrices*,  
 Israel Journal of Mathematics Vol. 107 (1998), 229-235.  
 (Hebrew University of Jerusalem, Springer)
- [22] P. Körtesi, J. Szigeti: *The adjacency matrix of a directed graph over the Grassmann algebra*,  
 Algebra and its Applications, Contemporary Mathematics Vol. 259 (2000), 319-322.  
 (American Mathematical Society, Providence)

[23] A. Lee, G. Révész, J. Szigeti, Zs. Tuza: *Capelli polynomials, almost permutation matrices and sparse Eulerian graphs*,

Discrete Mathematics 230 (2001), 49-61.

(Elsevier)

[24] S. Sehgal, J. Szigeti: *Matrices over centrally  $Z_2$ -graded rings*,

Beiträge zur Algebra und Geometrie (Berlin), Vol. 43 (2002), No.2, 399-406.

(Springer)

[25] J. Szigeti: *Linear orders on rings*,

Communications in Algebra Vol. 33 (2005), No. 8, 2683-2695.

(Taylor&Francis)

[26] S. Radelezki, J. Szigeti: *Linear orders on general algebras*,

Order Vol. 22 (2005), 41-62.

(Springer)

[27] P. Körtesi, J. Szigeti: *A general approach to the Fitting lemma*,

Mathematika (London) Vol. 52 (2005), 155-160.

(London Mathematical Society)

[28] S. Foldes, J. Szigeti: *Maximal compatible extensions of partial orders*,

Journal of the Australian Mathematical Society Vol. 81 (2006) Part 2, 245-253.

(Cambridge Journals)

[29] J. Szigeti: *Cayley-Hamilton theorem for matrices over an arbitrary ring*,

Serdica Math. J. Vol. 32 (2006), 269-276.

(Institute of Mathematics and Informatics, Bulgarian Academy of Sciences)

[30] S. Foldes, J. Szigeti: *A half-space approach to order dimension*,

Order Vol. 24 (2007), 59-73.

(Springer)

[31] J. Szigeti, L. van Wyk: *Subrings which are closed with respect to taking the inverse*,

Journal of Algebra 318 (2007), 1068–1076.

(Elsevier)

[32] J. Szigeti: *Linear algebra in lattices and nilpotent endomorphisms of semisimple modules*,

Journal of Algebra 319 (2008), 296-308.

(Elsevier)

[33] J. Meyer, J. Szigeti, L. van Wyk: *On ideals of triangular matrix rings*,

Periodica Math. Hung. Vol. 59 (1) (2009), 109-115.

(Akadémiai Kiadó, Springer)

- [34] V. Drensky, J. Szigeti, L. van Wyk: *Centralizers in endomorphism rings*, Journal of Algebra 324 (2010), 3378-3387.  
(Elsevier)
- [35] S. Foldes, J. Szigeti, L. van Wyk: *Invertibility and Dedekind finiteness in structural matrix rings*, Linear and Multilinear Algebra Vol. 59, No. 2 (2011), 221-227.  
(Taylor&Francis)
- [36] V. Drensky, J. Szigeti, L. van Wyk: *Algebras generated by two quadratic elements*, Communications in Algebra, 39: 4 (2011), 1344-1355.  
(Taylor&Francis)
- [37] J. Szigeti: *Maximal extensions of partial orders preserving antimonotonicity*, Algebra Universalis, Vol. 66, No. 1-2 (2011), 143-150.  
(Birkhäuser, Basel)
- [38] J. Meyer, J. Szigeti, L. van Wyk: *A Cayley-Hamilton trace identity for  $2 \times 2$  matrices over Lie-solvable rings*, Linear Algebra and its Applications 436 (2012), 2578–2582.  
(Elsevier)
- [39] J. Szigeti, L. van Wyk: *The zero-level centralizer in endomorphism algebras*, Proceedings of the Royal Society of Edinburgh: Section A Mathematics, 142 (2012), 1325-1336.  
(Cambridge Journals)
- [40] J. Szigeti: *Which self maps appear as lattice endomorphisms*, Discrete Mathematics, 321 (2014), 53–56.  
(Elsevier)
- [41] J. Szigeti, L. van Wyk: *Determinants for  $n \times n$  matrices and the symmetric Newton formula in the  $3 \times 3$  case*, Linear and Multilinear Algebra, Vol. 62, No.8 (2014), 1076-1090.  
(Taylor&Francis)
- [42] L. Márki, J. Meyer, J. Szigeti, L. van Wyk: *Matrix representations of finitely generated Grassmann algebras and some consequences*, Israel Journal of Mathematics, Vol. 208 (2015), 373-384.  
(Hebrew University of Jerusalem, Springer)
- [43] J. Szigeti, L. van Wyk: *On Lie nilpotent rings and Cohen's Theorem*, Communications in Algebra, Vol. 43, No.11 (2015), 4783-4796.  
(Taylor&Francis)
- [44] S. Foldes, J. Szigeti: *Which self-maps appear as lattice anti-endomorphisms?* Algebra Universalis, Vol. 75, (2016), 439-449.  
(Birkhäuser, Basel)

- [45] J. Szigeti, L. van Wyk: *A Constructive Elementary Proof of the Skolem–Noether Theorem for Matrix Algebras*,  
 American Mathematical Monthly, Vol. 124, (2017), 966-968.  
 (Mathematical Association of America)
- [46] B. E. de Klerk; J.H. Meyer; J. Szigeti, L. van Wyk: *Functions realising as abelian group automorphisms*,  
 Communications in Algebra, Vol. 46, (2018), 467-479.  
 (Taylor&Francis)
- [47] J. Szigeti: *Integrality over fixed rings of automorphisms in a Lie nilpotent setting*,  
 Journal of Algebra, Vol. 518, (2019), 198-210.  
 (Elsevier)
- [48] J. Szigeti, J. van den Berg, L. van Wyk, M. Ziembowski: *The maximum dimension of a Lie nilpotent subalgebra of  $\mathbb{M}_n(\mathbf{F})$  of index  $m$* ,  
 Transactions of the American Mathematical Society, Vol. 372, No. 7, (2019), 4553–4583.  
 (American Mathematical Society, Providence)
- [49] J. Szigeti, Sz. Szilágyi, L. van Wyk: *A power Cayley-Hamilton identity for  $n \times n$  matrices over a Lie nilpotent ring of index  $k$* ,  
 Linear Algebra and its Applications 584, (2020), 153-163.  
<https://doi.org/10.1016/j.laa.2019.09.016>  
 (Elsevier)
- [50] Sz. Árvai Homolya, J. Szigeti, L. van Wyk, M. Ziembowski: *Lie properties in associative algebras*, manuscript