

LISTA DE LUCRĂRI

Csaba-Lehel Szántó

A. 10 lucrări considerate a fi cele mai relevante pentru realizările profesionale proprii

- 1 Cs. Szántó, I. Szöllősi, *On some Ringel-Hall polynomials associated to tame indecomposable modules*, **Journal of Pure and Applied Algebra** 228 (2024), published online on 7.11.2023, article number 107555, 40 pages, <https://doi.org/10.1016/j.jpaa.2023.107555>
- 2 Cs. Szántó, I. Szöllősi, *Schofield sequences in the Euclidean case*, **Journal of Pure and Applied Algebra** 225 (2021), article number 106586, 123 pages
- 3 Cs. Szántó, *Submodules of Kronecker modules via extension monoid products*, **Journal of Pure and Applied Algebra** 222 (2018), pp. 3360-3378.
- 4 Cs. Szántó, I. Szöllősi, *A short solution to the subpencil problem involving only column minimal indices*, **Linear Algebra and its Applications** 517 (2017), pp. 99-119.
- 5 Cs. Szántó, *Combinatorial aspects of extensions of Kronecker modules*, **Journal of Pure and Applied Algebra** 219 (2015), pp. 4378-4391.
- 6 Cs. Szántó, I. Szöllősi, *Hall polynomials and the Gabriel-Roiter submodules of simple homogeneous modules*, **Bulletin of the London Mathematical Society** 47 (2015), pp. 206-216.
- 7 Cs. Szántó, *On some Ringel-Hall products in tame cases*, **Journal of Pure and Applied Algebra** 216 (2012), pp. 2069-2078.
- 8 Cs. Szántó, I. Szöllősi, *On preprojective short exact sequences in the Kronecker case*, **Journal of Pure and Applied Algebra** 216 (2012), pp. 1171-1177.
- 9 Cs. Szántó, *On the cardinalities of Kronecker quiver Grassmannians*, **Mathematische Zeitschrift** 269 (2011), pp. 833-846.
- 10 Cs. Szántó, *Hall Numbers and the composition algebra of the Kronecker algebra*, **Algebras and Representation Theory** 9 (5) (2006), pp. 465-495.

B. Teză de doctorat

Titlul tezei: *Hall algebras in the Kronecker case*. Conducător științific Prof. dr. Ioan Purdea (UBB). Cotutelaj Prof. dr. Steffen König (Universitatea Bielefeld, Germania). Titlul de doctor obținut cu distincția *Cum Laude* în data de 03.05.2006.

C. Cărți și capitole în cărți

1. Cs. Szántó, I. Szöllősi, *Combinatorial methods in the representation theory of finite dimensional tame algebras*, Presa Universitară Clujeană (2023), 237 pp., ISBN 978-606-37-2010-9
2. L. Tamás, A. Marcus, Cs. Szántó, *Lineáris Algebra*, Presa Universitară Clujeană (2021), ISBN 978-606-37-1354-5.
3. Cs. Szántó, I. Szöllősi, *Kriptográfia*, Presa Universitară Clujeană (2009), 140 pp., ISBN 978-973-610-973-7.
4. Cs. Szántó, *Hall algebras in the Kronecker case*, EFES Cluj-Napoca (2006), 105 pp., ISBN 973-7677-17-X.

5. S. Crivei, A. Marcus, Ch. Săcărea, Cs. Szántó, *Computational algebra with applications to coding theory and cryptography*, EFES Cluj-Napoca (2006), 198 pp. ISBN-10 973-7677-31-5.
6. A. Marcus, Cs. Szántó, L. Tóth, *Logika és halmazelmélet*, Editura Scientia (2004), 200 pp., ISBN 973-7953-29-0.
7. A. Marcus, Cs. Szántó, *Általános algebrai feladatgyűjtemény*, două ediții Erdélyi Tankönyvtanács (1997) și Lito UBB Cluj (1996), 107 pp.

D. Articole publicate în reviste din fluxul științific internațional principal

D1. Articole ISI

1. Cs. Szántó, I. Szöllősi, *On some Ringel-Hall polynomials associated to tame indecomposable modules*, **Journal of Pure and Applied Algebra** 228 (2024), published online on 7.11.2023, article number 107555, 40 pages, <https://doi.org/10.1016/j.jpaa.2023.107555>
2. Cs. Szántó, I. Szöllősi, *Ringel-Hall polynomials associated to a quiver of type \tilde{D}_4* , **Periodica Mathematica Hungarica**, published online on 23.09.2023, 25 pages, <https://doi.org/10.1007/s10998-023-00549-y>
3. Sz. Lénárt, Á. Lőrinczi, Cs. Szántó, I. Szöllősi, *Tree representations of the quiver \tilde{D}_m* , **Colloquium Mathematicum** 167 (2022), pp. 261-302.
4. Cs. Szántó, I. Szöllősi, *Schofield sequences in the Euclidean case*, **Journal of Pure and Applied Algebra** 225 (2021), article number 106586, 123 pages
5. Cs. Szántó, I. Szöllősi, *On some Hall polynomials over a quiver of type \tilde{D}_4* , **Acta Universitatis Sapientiae Mathematica** 12 (2020), pp. 39-404.
6. Cs. Szántó, *Submodules of Kronecker modules via extension monoid products*, **Journal of Pure and Applied Algebra** 222 (2018), pp. 3360-3378.
7. Cs. Szántó, I. Szöllősi, *A short solution to the subpencil problem involving only column minimal indices*, **Linear Algebra and its Applications** 517 (2017), pp. 99-119.
8. Cs. Szántó, *Combinatorial aspects of extensions of Kronecker modules*, **Journal of Pure and Applied Algebra** 219 (2015), pp. 4378-4391.
9. Cs. Szántó, I. Szöllősi, *Hall polynomials and the Gabriel-Roiter submodules of simple homogeneous modules*, **Bulletin of the London Mathematical Society** 47 (2015), pp. 206-216.
10. Cs. Szántó, *On some Ringel-Hall numbers in tame cases*, **Acta Univ. Sapientiae Mathematica** 6 (2014), pp. 61-72.
11. Cs. Szántó, *On some Ringel-Hall products in tame cases*, **Journal of Pure and Applied Algebra** 216 (2012), pp. 2069-2078.
12. Cs. Szántó, I. Szöllősi, *On preprojective short exact sequences in the Kronecker case*, **Journal of Pure and Applied Algebra** 216 (2012), pp. 1171-1177.
13. Cs. Szántó, I. Szöllősi, *The terms in the Ringel-Hall product of preinjective Kronecker modules*, **Periodica Mathematica Hungarica** 63 (2011), pp. 227-244.
14. Cs. Szántó, *On the cardinalities of Kronecker quiver Grassmannians*, **Mathematische Zeitschrift** 269 (2011), pp. 833-846.
15. Cs. Szántó, Alexandru Horvath, *Formulas for Kronecker invariants using a representation theoretical approach*, **Linear Algebra and its Applications** 430 (2009), pp. 664-673.
16. Cs. Szántó, *Hall Numbers and the Composition Algebra of the Kronecker Algebra*, **Algebras and Representation Theory** 9 (5) (2006), pp. 465-495.

17. Cs. Szántó, *A generic Hall algebra of the Kronecker algebra*, **Communications in Algebra** 33(8) (2005), pp. 2519-2540.

D2. Articole BDI

1. Cs. Szántó, Á. Lőrinczi, *The indecomposable preprojective and preinjective representations of the quiver \tilde{D}_n* , **Mathematica Cluj** 57(80) (2015), pp. 54-66.
2. Cs. Szántó, Á. Lőrinczi, *The indecomposable preprojective and preinjective representations of the quiver \tilde{D}_5* , **Mathematica Cluj** 56(79) 2 (2014), pp. 145-157.
3. Cs. Szántó, *On some nonzero Ringel-Hall numbers in tame cases*, **Mathematica Cluj** 53(76) (2011), pp. 189-195.
4. Ch. Săcărea, Cs. Szántó, I. Suteu Szollosi, *Combining the Solitaire Encryption Algorithm with Lagged Fibonacci Pseudorandom Number Generators*, **Mathematica Cluj** 51(74) (2009), pp. 163-171.
5. Cs. Szántó, *On some formulas in the Hall algebra of the Kronecker algebra*, **Acta Mathematica Academiae Paedagogicae Nyiregyhaziensis (AMAPN)** 23(1) (2007), pp. 1-6.
6. Cs. Szántó, *Regular submodules of regular Kronecker modules*, **Mathematica Cluj** 49(72) (2007), pp. 83-89.
7. Cs. Szántó, *On the Hall product of preinjective Kronecker modules*, **Mathematica Cluj**, 48(71) (2006), pp. 203-206.
8. Cs. Szántó, *Expressing the cyclic modules in terms of elementary modules in the classical Hall algebra*, **Mathematica Cluj**, 48(71) (2006), pp. 85-88.
9. Cs. Szántó, *Semisimple submodules in some specially oriented Dynkin cases*, **Mathematica Cluj** 44(67) (2002), pp. 245-250.
10. George Argeşanu, Cs. Szántó, *Taft algebras are cyclic serial*, **Mathematica Cluj** 44(67) (2002), pp. 11-17.

D3. Articole publicate în volume ale unor conferințe internaționale cu referenți

1. Cs. Szántó, *The Hall product of a regular indecomposable and a preprojective indecomposable Kronecker module*, Proceedings of the algebra symposium, Babeş-Bolyai University Cluj-Napoca, May 2006, EFES Cluj-Napoca (2006), ISBN 973-7677-16-1, pp. 107-116.

D4. Articole publicate în volume ale unor conferințe naționale

1. Cs. Szántó, *Hall coefficients in the Kronecker case*, Proceedings of the algebra symposium, Babeş Bolyai University Cluj-Napoca, November 23-24, 2001, EFES Cluj-Napoca (2002), ISBN 973-8254-26-4, pp. 261-274.