

List of Publications

Gábor Elek

1. Combinatorial Heat Kernels and Index Theorems
Journal of Functional Analysis, 129 (1995) 64-79
2. Abelian Coverings
Journal of Functional Analysis, 141 (1996) 365-373
3. Determinants of the Laurent ring and L_2 -Reidemeister Franz torsion
Mathematica Scandinavica 79 (1996) 202-208
4. Betti numbers and Euler's formula for combinatorial foliations
Manuscripta Mathematica 92 (1997) 237-247
5. On the Cayley graphs of amenable groups
Acta Mathematica Hungarica 74 (1997) 229-234
6. The K-theory of Gromov's translation algebras
Proceedings of the American Mathematical Society 125 (1997) 2551-2553
7. The l_p -cohomologies and the conformal dimension of hyperbolic cones
Geometriae Dedicata 68 (3) (1997) 263-279
8. Coarse cohomology and l_p -cohomology
K-theory 13 (1) (1998) 1-22
9. Amenability, l_p -homologies and translation invariant functionals
Journal of the Australian Mathematical Society 65 (1) (1998) 111-119
10. Euler-characteristics and Yuzvinskii's entropy addition formula
Bulletin London Math Society 31 (6) (1999) 661-664

11. On roughly transitive amenable graphs and harmonic Dirichlet functions, (with Gábor Tardos)
Proceedings of the American Mathematical Society 128, (8) (2000) 2479-2485
12. Amenable groups, topological entropy and Betti numbers
Israel Journal of Mathematics 132 (2002) 315-336
13. The rank of finitely generated modules over group algebras
Proceedings of the American Mathematical Society 131 (2003) 3477-3485
14. Invariant subspaces of p -adic Hilbert spaces, (with Endre Szabó)
Studia Sci. Math. Hungar. 40 (2003) 159-170
15. Amenable affine algebras
Journal of Algebra 264 (2003) 469-478
16. On the analytic zero divisor conjecture of Linnell
Bulletin of the London Math. Soc 35 (2003) 236-238
17. Sofic groups and direct finiteness, (with Endre Szabó)
Journal of Algebra 280 (2004) 426-434
18. On algebras that have almost finite dimensional representations,
Journal of Algebra and its Applications 4 (2005)
19. Paradoxical decompositions and growth conditions, (with Vera T. Sós)
Combin. Probab. Comput. 14 (2005) 81-105
20. Hyperlinearity, essentially free actions and L^2 -invariants. The sofic property,(with Endre Szabó)
Math. Ann. 332 (2005) 421-441

21. The amenability and non-amenability of skew fields,
Proc. Amer. Math. Soc. 134 (2006) 637-644
22. On sofic groups, (with Endre Szabó)
Journal of Group Theory 9 (2006) no.2 161-171
23. The strong approximation conjecture holds for amenable groups,
Journal of Functional Analysis 239 (2006) no.1 345-355
24. Ends of algebras (with Aryeh Samet-Vaillant)
Communications in Algebra 34 (2006) no.8 2967-2975
25. On limits of finite graphs,
Combinatorica 27 (2007) no.4 503-507
26. The combinatorial cost,
l'Enseignement Math. (2007) 53 225-236
27. Weak convergence of finite graphs, integrated density of states and a Cheeger type inequality,
Journal of Combinatorial Theory B (2008) 98 62-68
28. L^2 -spectral invariants and convergent sequences of finite graphs,
Journal of Functional Analysis (2008) 254 2667-2689
29. Minimal topological actions do not determine the measurable orbit equivalence class (with Tullio Ceccherini-Silberstein),
Groups, Geometry and Dynamics (2008) 2 139-163
30. Parameter testing in bounded degree graphs of subexponential growth. (to appear in Random Structures and Algorithms)
31. Limits of large girth sequences. (to appear in Combinatorica)

32. Betti numbers are testable. (to appear in the volume "Fete of Combinatorics and Computer Science")
33. Sofic equivalence relations (with Gábor Lippner) (to appear in the Journal of Functional Analysis)
34. Borel oracles. An analytical approach to constant-time algorithms. (with Gábor Lippner) (to appear in the Proc. of the AMS)
35. A measure-theory approach to the theory of dense hypergraphs. (with Balázs Szegedy, submitted)