

## Publications

Gábor Elek

1. Uniformly recurrent subgroups and simple  $C^*$ -algebras. (to appear in the **Journal of Functional Analysis**)
2. Infinite dimensional representations of finite dimensional algebras and amenability. **Math. Ann.** **369** (2017), 397-439.
3. Convergence and limits of linear representations of finite groups. **J. Algebra** **450** (2016), 588-615.
4. Lamplighter groups and von Neumann's continuous regular ring. **Proc. Amer. Math. Soc.** **144** (2016), no. 7, 2871-2883.
5. Full groups and soficity. **Proc. Amer. Math. Soc.** **143** (2015), no. 5, 1943-1950.
6. On the topological full group of minimal Cantor  $Z^2$ -systems. (with Nicolas Monod) **Proc. Amer. Math. Soc.** **141** (2013), no. 10, 3549-3552.
7. Connes Embeddings and von Neumann Regular Closures of Amenable Group Algebras. **Trans. Amer. Math. Soc.** **365** (2013), no. 6, 3019-3039.
8. Dynamical properties of profinite actions (with Miklós Abért) **Ergodic Theory and Dynamical Systems**, **32** (2012) 1805-1835.
9. A measure-theory approach to the theory of dense hypergraphs. (with Balázs Szegedy) **Advances in Mathematics** **231** (2012) 1731-1772
10. Finite graphs and amenability. **Journal of Functional Analysis** **263** (9) (2012) 2593-2614

11. Sofic representations of amenable groups. (with Endre Szabó)  
**Proceedings of the AMS (2011) 139 4285-4291.**
12. Borel oracles. An analytical approach to constant-time algorithms. (with Gábor Lippner)  
**Proceedings of the AMS (2010) 138 2939-2947.**
13. Sofic equivalence relations (with Gábor Lippner)  
**Journal of Functional Analysis (2010) 258 1692-1708**
14. Limits of large girth sequences.  
**Combinatorica (2010) 30 553-563.**
15. Parameter testing in bounded degree graphs of subexponential growth.  
**Random Structures and Algorithms (2010) 37 248-270**
16. Minimal topological actions do not determine the measurable orbit equivalence class (with Tullio Ceccherini-Silberstein),  
**Groups, Geometry and Dynamics (2008) 2 139-163**
17.  $L^2$ -spectral invariants and convergent sequences of finite graphs,  
**Journal of Functional Analysis (2008) 254 2667-2689**
18. Weak convergence of finite graphs, integrated density of states and a Cheeger type inequality,  
**Journal of Combinatorial Theory B (2008) 98 62-68**
19. The combinatorial cost,  
**l'Enseignement Math. (2007) 53 225-236**
20. On limits of finite graphs,  
**Combinatorica 27 (2007) no.4 503-507**

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. Hyperlinearity, essentially free actions and  $L^2$ -invariants. The sofic property,(with Endre Szabó)  
**Math. Ann.** **332** (2005) 421-441
25. Paradoxical decompositions and growth conditions, (with Vera T. Sós)  
**Combin. Probab. Comput.** **14** (2005) 81-105
26. Sofic groups and direct finiteness, (with Endre Szabó)  
**Journal of Algebra** **280** (2004) 426-434
27. On the analytic zero divisor conjecture of Linnell  
**Bulletin of the London Math. Soc** **35** (2003) 236-238
28. Amenable affine algebras  
**Journal of Algebra** **264** (2003) 469-478
29. The rank of finitely generated modules over group algebras  
**Proceedings of the American Mathematical Society** **131** (2003) 3477-3485
30. Amenable groups, topological entropy and Betti numbers  
**Israel Journal of Mathematics** **132** (2002) 315-336

31. On roughly transitive amenable graphs and harmonic Dirichlet functions, (with Gábor Tardos)  
**Proceedings of the American Mathematical Society** **128**, (8) (2000) 2479-2485
32. Euler-characteristics and Yuzvinskii's entropy addition formula  
**Bulletin London Math Society** **31** (6) (1999) 661-664
33. Amenability,  $l_p$ -homologies and translation invariant functionals  
**Journal of the Australian Mathematical Society** **65** (1) (1998) 111-119
34. Coarse cohomology and  $l_p$ -cohomology  
**K-theory** **13** (1) (1998) 1-22
35. The  $l_p$ -cohomologies and the conformal dimension of hyperbolic cones  
**Geometriae Dedicata** **68** (3) (1997) 263-279
36. The K-theory of Gromov's translation algebras  
**Proceedings of the American Mathematical Society** **125** (1997) 2551-2553
37. Betti numbers and Euler's formula for combinatorial foliations  
**Manuscripta Mathematica** **92** (1997) 237-247
38. Determinants of the Laurent ring and  $L_2$ -Reidemeister Franz torsion  
**Mathematica Scandinavica** **79** (1996) 202-208
39. Abelian Coverings  
**Journal of Functional Analysis**, **141** (1996) 365-373
40. Combinatorial Heat Kernels and Index Theorems  
**Journal of Functional Analysis**, **129** (1995) 64-79