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C*-algebras and Topological Dynamics (Amenability and Finite Approximation)

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We introduce basic notions of topological and C*-dynamics. We discuss weak mixing and compactness properties, basic concepts in ergodic theory, amenability and property (T), and several notions of orbit equivalence.

References

- 1- N. Brown and N. Ozawa, C*-algebras and finite-dimensional approximations, Vol. 88, AMS, 2008.
- 2- D. Kerr, C*-algebras and topological dynamics: Finite approximation and paradoxicality, Advanced Courses in Mathematics, CRM Barcelona, 2011 (available at Kerr's homepage).
- 3- D. P. Williams, Crossed products of C*-algebras, Vol. 134, AMS, 2007.