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Canonical decompositions of free-by-cyclic groups

Free-by-cyclic groups can be defined as mapping tori of free group automorphisms. I will discuss a dynamical decomposition of automorphisms that produces a canonical decomposition of the corresponding free-by-cyclic groups. This will involve a discussion of attracting laminations for an automorphism, which is an extension of stable geodesic laminations for a surface homeomorphism. Similarly, the decomposition of free-by-cyclic groups is an extension of the JSJ decomposition of 3-manifolds. This talk is on joint work with Spencer Dowdall, Yassine Geurch, Radhika Gupta, and Caglar Uyanik.