Substitutions on countable groups Nicolas Bitar LAMFA UMR 7352 UPJV-CNRS

In this talk, we will explore how to generalize the notion of substitutions to countable groups. We begin by looking at the classes of ccc groups and monoform groups. Groups in these classes admit hierarchical decompositions that allow for the definition of substitutions and substitutive subshifts. We then show these substitutions may define minimal and/or uniquely ergodic shifts under different combinatorial properties, as well as exploring recognizability and aperiodicity. At the end, we will briefly look at how to expand our definition to larger classes of groups. Joint work with Christopher Cabezas and Pierre Guillon.