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Siddhanta Athreya Jayadev* (jathreya@gmail.com), Department of Mathematics, Yale University, P. O. Box 20823, New Haven, CT 06520-8283. *Discrete sets and dynamics on parameter spaces*. Preliminary report.

We prove quantitative results for dynamics of Lie group actions on parameter spaces by studying associated discrete sets in Euclidean spaces. We give applications to counting problems, equidistribution, and diophantine approximation. (Received March 06, 2010)