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Poisson bundles and boundary actions

The study of conjugation-invariant measures on the space of subgroups of a given finitely generated group (also known as invariant random subgroups) has attracted a significant amount of attention in recent years. We introduce an approach to studying invariant random subgroups based on Poisson bundles, which are the objects obtained by attaching to a random subgroup the Poisson boundary of the random walk on its Schreier coset graph. Our main result is that the boundary action of an invariant random subgroup is conservative (there are no wandering sets). This is joint work with Vadim Kaimanovich.