

Dynamics Seminar

Local-global principles and effective rates of equidistribution for semisimple orbits

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Abstract: We prove an effective equidistribution theorem for semisimple closed orbits on compact adelic quotients. The obtained error depends polynomially on the minimal complexity of intermediate orbits and the complexity of the ambient space. As an application, we establish a local-global principle for representations of quadratic forms, improving the codimension assumptions and providing effective bounds in a theorem of Ellenberg and Venkatesh. We will discuss these theorems not assuming any prior knowledge of any of the above concepts. This is based on joint work with Manfred Einsiedler, Elon Lindenstrauss, and Amir Mohammadi.

Note unusual time to avoid conflict with Geometry/Topology seminar at 3pm.

Wednesday, October 30 at 4:00 PM in 636 SEO