

Geometry/Topology Seminar

Bifurcation currents for families of group representations in higher rank

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Abstract: Groups acting linearly on projective spaces are examples of holomorphic dynamical systems which exhibit a variety of different behaviours. We introduce the notion of proximal stability which measures a form of dynamical stability for the action of a holomorphic family of group representations and we will explain how this property can be detected using a bifurcation current on the parameter space of the family. This bifurcation current measures the pluriharmonicity of the top Lyapunov exponent of the family of representations, defined using a random walk on the group.

Wednesday, March 29 at 3:00 PM in 427 SEO