THE PRESSURE METRIC FOR CONVEX ANOSOV REPRESENTATIONS.

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ABSTRACT

Using thermodynamic formalism, we introduce a notion of intersection for convex Anosov representations. We also produce an Out-invariant Riemannian metric on the smooth points of the deformation space of convex, irreducible representations of a word hyperbolic group $G$ into $\text{SL}(m, \mathbb{R})$ whose Zariski closure contains a generic element. In particular, we produce a mapping class group invariant Riemannian metric on Hitchin components which restricts to the Weil–Petersson metric on the Fuchsian locus. This is joint work with R. Canary, F. Labourie and A. Sambarino.

Wednesday, 6 March 2013
4:00 pm
Smith Hall 204
Tea and refreshments will be served at 3:45pm.

http://math.newark.rutgers.edu/~xiaowwan/Colloquium/