

Renormalized area of minimal surfaces in hyperbolic manifolds

Rafe MAZZEO

Stanford University

I will report on joint work with Spyros Alexakis concerning the renormalized area functional acting on the space of complete, properly embedded minimal surfaces in hyperbolic 3-manifolds. This requires new existence and regularity results for this class of surfaces, and the variational theory of the renormalized area functional is investigated.