



Speaker: Mark Pollicott
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Thursday, March 7, 2013
2:00 PM
258 Hurley Hall

Title: Zeta functions for closed geodesics

Abstract:

In 1956, Selberg introduced a zeta function $Z(s)$ defined in terms of closed geodesics on a negatively curved manifold, defined by analogy with the Riemann zeta function in number theory. In the case of manifolds with constant negative sectional curvatures the Selberg trace formula gives an extension of $Z(s)$ to the entire complex plane. Using a more dynamical approach, Giulietti, Liverani and I have extended this result to the case of manifolds with variable negative sectional curvatures (and, more generally, Anosov flows).