DIFFERENTIAL GEOMETRY/PDE SEMINAR

Wednesday, March 29
Padelford C-36
3:45 pm

Semiclassical estimates in asymptotically Euclidean scattering

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I will discuss joint work with M. Zworski in which we obtain semiclassical resolvent estimates for non-trapping long range perturbations of the Laplacian on asymptotically Euclidean manifolds. Our proof is based on a positive commutator argument which differs from Mourre-type estimates by making the commutant also positive. The resolvent estimates, including the weighting of the Sobolev spaces in the estimates, are an immediate consequence.