

Kiril Datchev

Title: Semiclassical resolvent bounds in general trapping situations

Abstract: We give a new, simplified proof of Burq's and Cardoso and Vodev's resolvent estimates for scattering on manifolds with boundary. The proof also allows lower regularity on the coefficients of the scattering problem. Globally, the resolvent norm grows exponentially in the inverse semiclassical parameter, and near infinity it grows linearly.