EIGENFUNCTION AND CLUSTER ESTIMATES FOR SCHRODINGER OPERATORS ON MANIFOLDS

Yannick Sire

Johns Hopkins University

July 19, 2021

I will describe recent results on several estimates for eigenfunctions, cluster and quasi-modes of schrodinger operators on manifolds with critically singular potentials. Such results lead to space-time estimates for wave equations with potential and are discrete versions of restriction theorems in harmonic analysis. I will also state open problems.