RESONANCES FOR SCHR\" ODINGER OPERATORS ON HYPERBOLIC SPACE

Speaker: David Borthwick
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Time： Fri, Nov. 10, 09:00-10:00

Venue: Zoom: 618-038-6257, Password: SCMS

Abstract: We discuss existence and inverse results for Schr\"odinger operators on the hyperbolic space $\mathbb{H}^{n+1}$, with smooth, compactly supported potentials. Such results have been known in the Euclidean setting for several decades, based on the wave/heat trace expansions as well as asymptotics of the scattering phase. We will present a full picture of the corresponding theory in the hyperbolic setting and highlight some of the key differences from the Euclidean case. This talk represents joint work with Yiran Wang.