

DISSERTATION  
DEFENSE

*Asymptotics of Resonances for Radial Potential Scattering in  
Hyperbolic Space*

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**Abstract:** It is shown that for scattering by a spherically symmetric potential with compact support in  $\mathbb{H}^{n+1}$ , the resonance counting function  $N(r)$  is asymptotic to  $Cr^{n+1}$ .  $C$  is found explicitly, and is shown to depend only on the dimension and the radius of support of the potential.

Thursday, June 14, 2012, 1:00 pm  
Mathematics and Science Center: W306

Advisor: David Borthwick

MATHEMATICS AND COMPUTER SCIENCE  
EMORY UNIVERSITY