

SCATTERING POLES FOR ASYMPTOTICALLY HYPERBOLIC MANIFOLDS

MACIEJ ZWORSKI

Scattering poles for a convex obstacle in the Euclidean space have been extensively studied starting with the work of Watson '18, with more recent results by Hargé–Lebeau '94 , Sjöstrand–Zworski '99 and Jin '15. In contrast, practically nothing is known for the same problem in hyperbolic space. I will explain the difficulties involved in that and use them as a platform to present a modified version of Vasy's approach to meromorphic continuation on asymptotically hyperbolic spaces.