

***INVERSE SCATTERING ON NON-COMPACT MANIFOLDS
WITH GENERAL METRIC***

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Time: Fri, Apr. 19, 10:00-11:00

Venue: Zoom ID: 618 038 6257 Passcode: SCMS

Abstract: We consider a non-compact Riemannian manifold M having ends equipped with asymptotically warped product metric. We allow any topology and metric for the finite part of M . As for the volume growth of each end, we assume any polynomial or exponential order. Studying the spectral properties of the Laplacian of M , we show that the S -matrix determines the manifold M . We can also include polynomially or exponentially shrinking cusp ends. This is a joint work with Matti Lassas in the university of Helsinki.