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Spectral function of the Laplacian on a Riemannian manifold: dynamical features and average growth

In the talk I will present some recent results on average growth of the spectral function of the Laplacian on a Riemannian manifold, obtained in a joint work with Iosif Polterovich (Université de Montréal) and Yuri Safarov (King's College, London). The link between the asymptotic behaviour of the spectral function and the dynamics of the geodesic flow will be also discussed.