

# Adiabatic spectral asymptotics on foliated manifolds

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In this talk we are going to discuss some recent results concerning the asymptotic behavior of the eigenvalue distribution function of the Laplace operator on a compact Riemannian foliated manifold when the metric on the ambient manifold is blown up in directions normal to the leaves (in the adiabatic limit). In particular we will address the noncommutative Weyl formula and related problems on the distribution of integer points.