

Semiclassical defect measure of magnetic Laplacians on hyperbolic surfaces

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The purpose of this talk is to describe the quantum limits of eigenstates of magnetic Laplacians on hyperbolic surfaces. We will see that three distinct regimes appear, depending on the energy level: low, critical, and high. The main result is a quantitative version of Quantum Unique Ergodicity at the critical energy: at this energy level, eigenstates concentrate at a quantitative rate towards the Liouville measure. This is joint work with Laurent Charles.