

## **Horocycle averages and quantum chaos**

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Abstract: I will start by reminding the audience of the classical connection between the Schrödinger equation and the geodesic flow on a Riemannian manifold, and the breakdown of this approximation due to interference effects at the so-called Ehrenfest time. I will then put forward a (partially conjectural) connection between interference effects in the quantum world and ergodic averages of horocycle flows, when the dynamics of the geodesic flow is Anosov.