

Contribution Title: AHARONOV-BOHM SOLENOIDS ON THE HYPERBOLIC PLANE  
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YRS seminar: YES

We consider Schrödinger operators on the hyperbolic plane with magnetic fields given by the sum of a constant field and  $\delta$  magnetic fields, and investigate their spectral properties. In particular, we give some sufficient condition for each Landau level to be infinitely degenerated eigenvalue, in terms of the curvature of the plane and the averaged intensity of the magnetic fields. This result is closely related with the infiniteness of the zero-modes for the two-dimensional Pauli operators.