

# Abstract

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**“Obstacles for Magnetic Hamiltonians: SSF near Landau levels”**

We consider the 3D Schrödinger operator with constant magnetic field and its perturbations by imposing Dirichlet or Neumann conditions on the boundary of a bounded domain. We discuss the asymptotic behaviour of the associated Krein spectral shift functions (SSF) near the Landau levels. In some cases, we show that these asymptotics involve the logarithmic capacity of the projection of the obstacle onto the plane perpendicular to the magnetic field. It's a joint work with G. Raikov.