

Self-adjoint extensions of the Aharonov-Bohm Hamiltonian on Riemannian manifolds

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We consider the magnetic Schrödinger operator on a Riemannian manifold. We assume the magnetic field is given by the sum of a regular field and the Dirac δ measures supported on a discrete set. We give a complete characterization of the self-adjoint extensions of the minimal operator, in terms of the boundary conditions.