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Fredholmness vs. Spectral Discreteness for First Order Differential Operators.

In this talk it is shown that for essentially self-adjoint first-order differential operators D , acting on sections of bundles over complete (non-compact) manifolds, Fredholmness vs. Spectral Discreteness is the same as ‘ $\exists c > 0$, D is c -invertible at infinity’ vs. ‘ $\forall c > 0$, D is c -invertible at infinity’. An application involving the spectral theory of electromagnetic Dirac operators is then given. (Received July 09, 2017)