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Conformal extendibility and Einstein-Maxwell-Dirac Theory

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In this talk, we first present the concept of conformal extendibility and its importance in the analysis of the Maxwell-Dirac equations. Then we revise the restrictions conformal extendibility has on the topology and geometry of the standard Cauchy surfaces in the case of standard static spacetimes. Finally, we explain a new approach to present the Einstein-Dirac-Maxwell equations as a variational principle for a function on a Fréchet manifold, and show the existence of a maximal Cauchy development.

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