

# Nonminimal monopoles of the Dirac type as realization of the censorship conjecture

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## Abstract

We discuss a class of exact solutions of a three-parameter nonminimally extended Einstein-Maxwell model, which are attributed to nonminimal magnetic monopoles of the Dirac type. We focus on the investigation of the gravitational field of Dirac monopoles for those models, for which the singularity at the central point is hidden inside of an event horizon independently on the mass and charge of the object. We obtain the relationships between the nonminimal coupling constants, for which this requirement is satisfied. As explicit examples, we consider in detail two one-parameter models: first, the nonminimally extended Reissner-Nordström model (for the magnetically charged monopole) and, second, the Drummond-Hathrell model. © 2009 The American Physical Society.

<http://dx.doi.org/10.1103/PhysRevD.79.024007>

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