

# Regular black holes with exotic topologies

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In this work we will show that one can construct regular black holes solutions by reversing the Penrose singularity theorem and by tuning the null energy condition appropriately. In particular, we will show the existence of spherically symmetric regular black hole solutions with exotic topologies and we will classify them by using some kind of charge related to the trace of the energy momentum tensor computed at spacelike hypersurfaces taken along of the space-time.

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