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(G*) Distorted static black holes with a bubble

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We constructed a family of static, vacuum five-dimensional solutions with two commuting spatial isometries describing a black hole with a S^3 horizon and a 2-cycle 'bubble' in the domain of outer communications. The solutions have been obtained by adding dipole and quadropole distortions to a seed asymptotically flat solution. We showed that the conical singularities in the undistorted geometry can be removed by an appropriate choice of the distortion.

Keyword-1

Black holes

Keyword-2

General relativity

Keyword-3

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