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## Distorted static black holes with a bubble

*Tuesday 18 June 2024 10:00 (30 minutes)*

We construct a family of local static, vacuum five-dimensional solutions with two commuting spatial isometries describing a black hole with an  $S^3$  horizon and a 2-cycle ‘bubble’ in the domain of outer communications. The solutions are obtained by adding distortions to an asymptotically flat seed solution. We show that the conical singularities in the undistorted geometry can be removed by an appropriate choice of distortion.

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