

NUTs, bolts, and spindles

We construct 1/4-BPS, asymptotically locally hyperbolic Euclidean solutions of $d = 4$, $\mathcal{N} = 2$ gauged supergravity, describing the total space of orbifold line bundles over a spindle. These $U(1) \times U(1)$ -invariant solutions are divided into two classes, corresponding to either the twist or the anti-twist on the spindle-bolt, and generalize the spherical bolts found in arXiv:1212.4618. Consequently, the boundary metrics are squashed, branched lens spaces, and our results provide predictions for the large N limit of the corresponding localized partition functions of the dual superconformal theories.

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