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Acceleration in 3 dimensions - a new perspective

The C-metric in 4D is an interesting exact solution of Einstein's equations, representing a black hole being pulled by a "cosmic string". In 3D, we can construct similar metrics, but these turn out to have sometimes quite different properties. I will give a complete classification of "3DC" metrics, and show how their global structure varies from their 4D cousins, and the BTZ solution.

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