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WITHDRAWN - POS-35 - Atiyah-Hitchin in Einstein-Gauss-Bonnet Gravity

Wednesday, 31 May 2017 18:02 (2 minutes)

We construct a new class of non-stationary exact solutions to five-dimensional Einstein-Gauss-Bonnet gravity based on Atiyah-Hitchin space by finding analytical expression for the unknown metric functions. We investigate the behavior of the solutions numerically since these expressions cannot be written in closed forms. We also consider an extremal limit of the Atiyah-Hitchin metric which it reduces to the Euclidean Taub-NUT metric and discuss about the properties of the reduced solutions.

Primary author: GHEZELBASH, Masoud (University of Saskatchewan)

Presenter: GHEZELBASH, Masoud (University of Saskatchewan)

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