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Magnetized accretion disk structure in the background of an accelerating black hole

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An accelerating black hole can be described by a solution of Einstein's vacuum field equation. This talk will explain the analytical magnetized tori around this black hole and states its properties. The astrophysical motivation for choosing such fields is the possibility to constitute the simplest reasonable model for a real situation occurring in these objects' vicinity in this situation.

Primary author: FARAJI, Shokoufe (ZARM)

Co-author: Dr TROVA, Audrey (ZARM, Univeersity of Bremen)

Presenter: FARAJI, Shokoufe (ZARM)

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