



Contribution ID: 77

Type: Oral presentation

## Multi black hole system at equilibrium in an external gravitational field

Analytical and regular solutions in four-dimensional General Relativity representing multiblack hole systems immersed in external gravitational fields are discussed. The external fields background is composed by an infinite multipolar expansion, which allows to regularise the conical singularities of an array of collinear static black holes. Charged, Rotating, NUT and accelerating generalisations are presented. Limits to the binary Majumdar–Papapetrou, Bonnor–Swaminarayan and the Bičák–Hoenselaers–Schmidt metrics are recovered.

**Primary author:** ASTORINO, marco

**Presenter:** ASTORINO, marco