

Initializing gravitational evolutions within the parabolic-hyperbolic formulation – black holes binary

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April 14, 2017

ABSTRACT

The parabolic-hyperbolic formulation of the initial data of the Einstein equations for multiple black holes systems has been proposed recently [1–3]. It provides an alternative to the traditional conformal method [4]. During the talk, a numerical implementation of the above-mentioned evolutionary approach to the initial data problem of general relativity will be presented. It will involve a binary system composed of superposed Kerr-Schild black holes.

References

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- [4] G.B.Cook, Initial data for numerical relativity, *Living Rev. Rel.* **3**, 5 (2000).