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New quasilocal mass and multipole expansion in scalar-tensor gravity

Thursday 11 June 2020 12:45 (15 minutes)

A new generalization of the Hawking-Hayward quasilocal mass to scalar-tensor gravity is compared, for vacuum asymptotically flat stationary geometries, with multipole expansion of the gravitational field in this class of theories. The quasilocal mass at spatial infinity coincides with the monopole term, a necessary check lending credibility to this construct.

[Based on V. Faraoni & J. Côté, Phys. Rev. D 100, 084015 (2019)]

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