



Contribution ID: 1039

Type: **Poster (Non-Student) / affiche (non-étudiant)**

Paczynski-Wiita-like potential for any static spherical black hole in metric theories of gravity

Tuesday 14 June 2016 19:16 (2 minutes)

We present a Paczynski-Wiita-like pseudo-Newtonian potential describing the orbits of particles in arbitrary static and spherically symmetric spacetimes, including black hole solutions of alternative theories of gravity. This general prescription differs substantially from a previous one, showing that the association of pseudo-potentials with black hole spacetimes is not unique.

[Based on V. Faraoni, S. Belknap-Keet & M. Lapierre-Leonard 2016, Phys. Rev. D 93, 044042]

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Session Classification: DTP Poster Session with beer / Session d'affiches, avec bière DPT

Track Classification: Theoretical Physics / Physique théorique (DTP-DPT)