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

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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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