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An exterior axisymmetric solution for a rotating body in the relativistic theory of gravitation. (English. Russian original) [Zbl 0621.53061](#)

Theor. Math. Phys. 70, 118-125 (1987); translation from *Teor. Mat. Fiz.* 70, No. 2, 171-180 (1987).

An exact solution of the complete system of equations for the authors' relativistic theory of gravitation is found for a rotating body in the axisymmetric case. The existence of the gravitational slowing down in the neighbourhood of the horizon is proved. Due to this mechanism test bodies fall down to the horizon in infinite time without being rolled around the horizon.

MSC:

53B50 Applications of local differential geometry to the sciences

83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories

Keywords:

rotating body; gravitational slowing down; horizon

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