

List of publications of Eva Hackmann

Peer reviewed

- [1] A. García, E. Hackmann, J. Kunz, C. Lämmerzahl, and A. Macías. Motion of test particles in a regular black hole space–time. *J. Math. Phys.*, 56:032501, 2015.
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- [3] E. Hackmann and C. Lämmerzahl. Generalized gravitomagnetic clock effect. *Phys. Rev. D*, 90:044059, 2014.
- [4] E. Hackmann and H. Xu. Charged particle motion in Kerr-Newmann space-times. *Phys. Rev. D*, 87:124030, 2013.
- [5] M. Andres et al. High precision modeling towards the 10^{-20} level. *Z. Angew. Math. Mech.*, 93:492, 2013.
- [6] E. Hackmann and C. Lämmerzahl. Observables for bound orbital motion in axially symmetric space-times. *Phys. Rev. D*, 85:044049, 2012.
- [7] A. Garcia, E. Hackmann, C. Lämmerzahl, and A. Macias. No-hair conjecture for Einstein-Plebanski nonlinear electrodynamics static black holes. *Phys. Rev. D*, 86:024037, 2012.
- [8] V.Z. Enolskii, E. Hackmann, V. Kagramanova, J. Kunz, and C. Lämmerzahl. Inversion of hyperelliptic integrals of arbitrary genus with application to particle motion in general relativity. *J. Geom. Phys.*, 61:899, 2011.
- [9] E. Hackmann, C. Lämmerzahl, V. Kagramanova, and J. Kunz. Analytical solution of the geodesic equation in Kerr-(anti-) de Sitter space-times. *Phys. Rev. D*, 81:044020, 2010.
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- [13] E. Hackmann, V. Kagramanova, J. Kunz, and C. Lämmerzahl. Analytic solutions of the geodesic equation in axially symmetric space–times. *Europhys. Lett.*, 88:30008, 2009.
- [14] E. Hackmann and C. Lämmerzahl. Complete analytic solution of the geodesic equation in Schwarzschild–(anti) de Sitter space–times. *Phys. Rev. Lett.*, 100:171101, 2008.

- [15] E. Hackmann and C. Lämmerzahl. Geodesic equation in Schwarzschild–(anti-)de Sitter space-times: Analytical solutions and applications. *Phys. Rev. D*, 78:024035, 2008.
- [16] E. Hackmann, V. Kagramanova, J. Kunz, and C. Lämmerzahl. Analytic solutions of the geodesic equation in higher dimensional static spherically symmetric spacetimes. *Phys. Rev. D*, 78:124018, 2008.

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- [17] Eva Hackmann. Geodesic equations and algebro-geometric methods. In Jirí Bičák and Tomáš Ledvinka, editors, *Relativity and Gravitation*, volume 157 of *Springer Proceedings in Physics*, pages 91–98. Springer International Publishing, 2014.
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