

CV Dr. Eva Hackmann

Personal data

Address ZARM, Universität Bremen
 Am Fallturm
 28359 Bremen
 Germany
Phone +49(0)421 218 57862
E-mail eva.hackmann@zarm.uni-bremen.de

Academic education

04/2010 PhD (Dr. rer. nat.) in Physics, Universität Bremen, Bremen, Germany.
 Grade: Summa cum laude
 Supervisor: Prof. Dr. C. Lämmerzahl
08/2006 Diploma in Mathematics, Carl-von-Ossietzky Universität Oldenburg, Oldenburg, Germany.
 Grade: Very good
 Supervisors: Prof. Dr. M. Langenbruch, Prof. Dr. C. Lämmerzahl

Academic positions

Since 04/2018 Visiting Professor, University of Bielefeld
2016 Visiting Professor, University of Bielefeld
Since 2014 Head of Gravitational Theory group, Center of applied space technology and microgravity (ZARM), University of Bremen
Since 2010 Postdoc at ZARM, University of Bremen
2006 - 2010 PhD student at ZARM, University of Bremen

Awards

2011 DPG Dissertationspreis:
 Award of the German physical society for the best PhD thesis in the fields Particle Physics, Hadrons and Nuclei, and Gravitation and General Relativity

Publications

Since 2008 39 publication, thereof
 19 peer reviewed publications
 15 articles in proceedings
 5 other publications
h – index 14 (from Google Scholar)
Citations 755 (from Google Scholar)

10 Selected Articles

- [1] K. Schroven, E. Hackmann, and C. Lämmerzahl. Relativistic dust accretion of charged particles in Kerr-Newman spacetime. *Phys. Rev. D* 96:063015, 2017.
- [2] D. Philipp, V. Perlick, D. Puetzfeld, E. Hackmann, C. Lämmerzahl. Definition of the relativistic geoid in terms of isochronometric surfaces. *Phys. Rev. D* 95:104037, 2017.
- [3] A. García, E. Hackmann, J. Kunz, C. Lämmerzahl, and A. Macías. Motion of test particles in a regular black hole spacetime. *J. Math. Phys.*, 56:032501, 2015.
- [4] E. Hackmann and C. Lämmerzahl. Generalized gravitomagnetic clock effect. *Phys. Rev. D*, 90:044059, 2014.
- [5] E. Hackmann, C. Lämmerzahl, Y. N. Obukhov, D. Puetzfeld, and I. Schaffer. Motion of spinning test bodies in Kerr spacetime. *Phys. Rev. D*, 90:064035, 2014.
- [6] E. Hackmann and H. Xu. Charged particle motion in Kerr-Newmann space-times. *Phys. Rev. D*, 87:124030, 2013.
- [7] E. Hackmann and C. Lämmerzahl. Observables for bound orbital motion in axially symmetric space-times. *Phys. Rev. D*, 85:044049, 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, V. Kagramanova, C. Lämmerzahl, J. Kunz. Analytic solutions of the geodesic equation in axially symmetric space-times, *Europhys. Lett.* 88:30008, 2009.
- [10] E. Hackmann, and C. Lämmerzahl. Complete Analytic Solution of the Geodesic Equation in Schwarzschild(Anti-)de Sitter Spacetimes, *Phys. Rev. Lett.* 100:171101, 2008.

Major Scientific Projects

Since 10/2016 Principal Investigator in the Research Training Group “Models of Gravity”
Since 10/2014 Principal Investigator in the Collaborative Research Center “Relativistic Geodesy and Gravimetry with Quantum Sensors (geo-Q)”

Others

28.07.2014 Maternity/Parental leave
– 12.05.2015