

Publications

Philip K. Schwartz

- P K Schwartz, A L von Blanckenburg, *Comment on ‘The Classical Limit of Teleparallel Gravity’*, [arXiv:2410.02839](#)
- P K Schwartz, A L von Blanckenburg, *The Newtonian limit of orthonormal frames in metric theories of gravity*, [arXiv:2410.01800](#)
- P K Schwartz, *The classification of general affine connections in Newton–Cartan geometry: Towards metric-affine Newton–Cartan gravity*, [Classical and Quantum Gravity](#) **42**, 015010 (2025), [arXiv:2403.15460](#)
- A L von Blanckenburg, P K Schwartz, *On gauge transformations in twistless torsional Newton–Cartan geometry*, [arXiv:2402.05105](#)
- M Werner, P K Schwartz, J-N Kirsten-Siemß, N Gaaloul, D Giulini, K Hammerer, *Atom interferometers in weakly curved spacetimes using Bragg diffraction and Bloch oscillations*, [Physical Review D](#) **109**, 022008 (2024), [arXiv:2310.03719](#)
- A Alibabaei, P K Schwartz, D Giulini, *Geometric post-Newtonian description of massive spin-half particles in curved spacetime*, [Classical and Quantum Gravity](#) **40**, 235014 (2023), [arXiv:2307.04743](#)
- P K Schwartz, *Teleparallel Newton–Cartan gravity*, [Classical and Quantum Gravity](#) **40**, 105008 (2023), [arXiv:2211.11796](#)
- D Giulini, A Großardt, P K Schwartz, *Coupling Quantum Matter and Gravity*, in: Christian Pfeifer, Claus Lämmerzahl (eds.), *Modified and Quantum Gravity*, Lecture Notes in Physics **1017** (Springer, Cham, 2023), [arXiv:2207.05029](#)
- P K Schwartz, *Post-Newtonian Description of Quantum Systems in Gravitational Fields*, Doctoral thesis (Gottfried Wilhelm Leibniz Universität Hannover, 2020), [arXiv:2009.11319](#)
- P K Schwartz, D Giulini, *Classical perspectives on the Newton–Wigner position observable*, [International Journal of Geometric Methods in Modern Physics](#) **17**, 2050176 (2020), [arXiv:2004.09723](#)
- P K Schwartz, D Giulini, *Post-Newtonian Hamiltonian description of an atom in a weak gravitational field*, [Physical Review A](#) **100**, 052116 (2019), [arXiv:1908.06929](#)
- P K Schwartz, D Giulini, *Post-Newtonian corrections to Schrödinger equations in gravitational fields*, [Classical and Quantum Gravity](#) **36**, 095016 (2019), [arXiv:1812.05181](#)