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PUBLICATIONS IN REFEREED JOURNALS

excluding refereed contributions to conference-related special journal issues.

199. G. Somogyi, I. Nándori, U. D. Jentschura, “Neutrino Splitting for Lorentz–Violating Neutrinos: Detailed Analysis”, *submitted*.
198. A. Matveev, N. Kolachevsky, C. M. Adhikari, and U. D. Jentschura, “Pressure Shifts in High–Precision Hydrogen Spectroscopy. II. Impact Approximation and Monte–Carlo Simulations”, *submitted*.
197. U. D. Jentschura, C. M. Adhikari, R. Dawes, A. Matveev, and N. Kolachevsky, “Pressure Shifts in High–Precision Hydrogen Spectroscopy. I. Long–Range Atom–Atom and Atom–Molecule Interactions”, *submitted*.
196. I. G. Máriań, N. Defenu, U. D. Jentschura, A. Trombettoni, and I. Nándori, “Pseudo–Periodic Natural Higgs Inflation”, *submitted*.
195. I. G. Máriań, N. Defenu, U. D. Jentschura, A. Trombettoni, and I. Nándori, “Renormalization group running and inflationary cosmology”, *submitted*.

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194. Z. Harman, C. Shah, A. J. González Martnez, H. Tawara, U. D. Jentschura, C. H. Keitel, J. Ullrich and J. R. Crespo López-Urrutia, “Resonance strengths for KLL dielectronic recombination of highly charged mercury ions and improved empirical Z -scaling law”, *accepted for publication in Physical Review A*.
193. C. M. Adhikari and U. D. Jentschura, “Close Examination of the Ground–State Casimir–Polder Interaction: Time–Ordered Versus Covariant Formalism and Radiative Corrections”, *J. Phys. B* **51**, 215002 (2018).
192. U. D. Jentschura, “Gravitational Effects in g Factor Measurements and High–Precision Spectroscopy: Limits of Einstein’s Equivalence Principle”, *Phys. Rev. A* **98**, 032508 (2018).
191. U. D. Jentschura and C. M. Adhikari, “Relativistic and Radiative Corrections to the Dynamic Stark Shift: Gauge Invariance and Transition Currents in the Velocity Gauge”, *Phys. Rev. A* **97**, 062120 (2018).
190. U. D. Jentschura and I. Nándori, “Atomic Physics Constraints on the X Boson”, *Phys. Rev. A* **97**, 042502 (2018).

189. U. D. Jentschura, “Enzyme-Supported Immunotherapy: Case Study and Possible Generalizations”, *Journal of Cancer Therapy* **9**, 156-162 (2018).

188. U. D. Jentschura and J. Sapirstein, “Green Function of the Poisson Equation: $D = 2, 3, 4$ ”, *J. Phys. Commun.* **2**, 015026 (2018).

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187. U. D. Jentschura and C. M. Adhikari, “Long-Range Interactions for Hydrogen: $6P-1S$ and $6P-2S$ ”, *Atoms* **5**, 48 (2017).

186. U. D. Jentschura and I. Nándori, “Neutrino Pair Cerenkov Radiation for Tachyonic Neutrinos”, *Adv. High Energy Phys.* **2017**, 9850312 (2017).

185. J. H. Noble, M. Lubasch and J. Stevens and U. D. Jentschura, “Diagonalization of Complex Symmetric Matrices: Generalized Householder Reflections, Iterative Deflation and Implicit Shifts”, *Comput. Phys. Commun.* **221**, 304–316 (2017).

184. U. D. Jentschura, I. Nándori and R. Ehrlich, “Calculation of the Decay Rate of Tachyonic Neutrinos against Charged-Lepton-Pair and Neutrino-Pair Cerenkov Radiation”, *J. Phys. G* **44**, 105201 (2017).

183. C. M. Adhikari, V. Debierre and U. D. Jentschura, “Long-range interactions of hydrogen atoms in excited states. III. $nS-1S$ interactions for $n \geq 3$ ”, *Phys. Rev. A* **96**, 032702 (2017).

182. U. D. Jentschura and V. Debierre, “Long-Range Tails in van der Waals Interactions of Excited-State and Ground-State Atoms”, *Phys. Rev. A* **95**, 042506 (2017).

181. U. D. Jentschura, C. M. Adhikari, and V. Debierre, “Virtual Resonant Emission and Oscillatory Long-Range Tails in van der Waals Interactions of Excited States: QED Treatment and Applications”, *Phys. Rev. Lett.* **118**, 123001 (2017).

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179. C. M. Adhikari, V. Debierre, A. Matveev, N. Kolachevsky and U. D. Jentschura, “Long-range interactions of hydrogen atoms in excited states. I. $2S-1S$ interactions and Dirac- δ perturbations”, *Phys. Rev. A* **95**, 022703 (2017).

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177. C. M. Adhikari, A. Kawasaki and U. D. Jentschura, “Magic Wavelength for the hydrogen $1S-2S$ transition: Contribution of the continuum and the reduced-mass correction”, *Phys. Rev. A* **94**, 032510 (2016).

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175. U. D. Jentschura, M. Janke and M. DeKieviet, “Theory of Non–Contact Friction for Atom–Surface Interactions”, *Phys. Rev. A* **94**, 022510 (2016).
174. U. D. Jentschura and R. Ehrlich, “Lepton-pair Čerenkov radiation emitted by tachyonic neutrinos: Lorentz-covariant approach and Ice Cube data”, *Adv. High Energy Phys.* **2016**, 4764981 (2016).
173. J. H. Joble and U. D. Jentschura, “Dirac Hamiltonian and Reissner–Nordström Metric: Coulomb Interaction in Curved Space–Time”, *Phys. Rev. A* **93**, 032108 (2016).

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172. U. D. Jentschura, “Strong–Field Quantum Electrodynamics and Muonic Hydrogen”, *Phys. Rev. A* **92**, 012123 (2015).
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170. U. D. Jentschura and G. Łach, “Non–Contact Friction for Ion–Surface Interactions,” *Eur. Phys. J D* **69**, 119 (2015).
169. U. D. Jentschura and K. Pachucki, “Functional Form of the Imaginary Part of the Atomic Polarizability”, *Eur. Phys. J D* **69**, 118 (2015).
168. U. D. Jentschura, “Gravitational Correction to Vacuum Polarization”, *Phys. Rev. A* **91**, 022112 (2015).
167. U. D. Jentschura, G. Łach, M. De Kieviet and K. Pachucki, “One–Loop Dominance in the Imaginary Part of the Polarizability: Application to Blackbody and Non–Contact Quantum Friction”, *Phys. Rev. Lett.* **114**, 043001 (2015).
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160. I. G. Mórián, U. D. Jentschura and I. Nándori, “Numerically Optimized Regulator and Functional Renormalization Group”, *J. Phys. G* **41**, 055001 (2014).

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158. U. D. Jentschura and J. H. Noble, “Foldy–Wouthuysen Transformation, Scalar Potentials and Gravity,” *J. Phys. A* **47**, 045402 (2014).

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132. U. D. Jentschura and V. G. Serbo, “Compton Upconversion of Twisted Photons: Backscattering of Particles with Non–Planar Wave Functions,” *Eur. Phys. J. C* **71**, 1571 (2011).
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