LIST OF PUBLICATIONS

PUBLICATIONS IN PEER REVIEW JOURNALS

- [1] **T. J. Mehrling**, R. A. Fonseca, A. M. de la Ossa, and J. Vieira. *Mitigation of the hose instability in plasma-wakefield accelerators*. **Submitted to Physical Review Letters**, October 2016.
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- [7] R. Robson, **T. Mehrling**, and J. Osterhoff. *Phase-space moment-equation model of highly relativi*stic electron-beams in plasma-wakefield accelerators. **Annals of Physics**, 356(o):306 – 319, May 2015. URL http://www.sciencedirect.com/science/article/pii/S0003491615000998.
- [8] **T. Mehrling**, C. Benedetti, C. B. Schroeder, and J. Osterhoff. *HiPACE: a quasi-static particle-in-cell code*. **Plasma Physics and Controlled Fusion**, 56(8):084012, July 2014. URL http://stacks.iop.org/0741-3335/56/i=8/a=084012.
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- [12] **T. Mehrling**, J. Grebenyuk, F. S. Tsung, K. Floettmann, and J. Osterhoff. *Transverse emittance growth in staged laser-wakefield acceleration*. **Phys. Rev. ST Accel. Beams**, 15:111303, November 2012. URL http://link.aps.org/doi/10.1103/PhysRevSTAB.15.111303.

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- [19] **T. Mehrling**. Studying laser wakefield acceleration of relativistic electron bunches in inhomogeneous plasma with PIC simulations. **Diplomarbeit (Master's thesis)**, Technische Universität München Arcisstraße 11, 80333 München, March 2011.