



Current position

Senior scientist at Institute for Neutron Physics and Reactor Technology INR, KIT (since 2018)

Previous positions (two selected)

Technical Officer Nuclear Analysis and Nuclear Data at EU Joint Undertaking for ITER and the Development of Fusion Energy (Fusion for Energy F4E) (2013-2017)

Deputy Group Leader “Neutronics and Nuclear Data” at INR, KIT (2011-2012)

Scientific degree

Dr.-Ing. (PhD) in Mechanical Engineering, University of Karlsruhe (1998)

Recent research topics

Fusion neutronics code validation, radiological protection, requirement management, ALARA design guidelines

Awards, honors, memberships

OECD Nuclear Energy Agency, Working Party on Scientific Issues of Reactor Systems: Expert Group on Radiation Transport and Shielding (since 2013)

Publications (5 most important)

- **D. Leichtle, B. Weinhorst, A. Travleev, L. Lu, U. Fischer, B.Y. Kim, et al.**, Progress in nuclear analyses of the ITER TBM Port Plug with Dummy TBMs, *Fusion Eng. Des.* article in press (2019) [doi:10.1016/j.fusengdes.2019.02.131](https://doi.org/10.1016/j.fusengdes.2019.02.131)
- **D. Leichtle, B. Colling, M. Fabbri, R. Juarez, A. Serikov et al.**, The ITER tokamak neutronics reference model C-Model, *Fusion Eng. Des.* 136, 742 (2018) [doi:10.1016/j.fusengdes.2018.04.002](https://doi.org/10.1016/j.fusengdes.2018.04.002)
- **D. Leichtle, P.Y. Chaffard, J. Izquierdo, R. Juarez, R. Pampin et al.**, Status of the ITER tokamak nuclear shielding and radiological protection design, *Fusion Eng. Des.* 109, 666 (2016) [doi:10.1016/j.fusengdes.2016.02.023](https://doi.org/10.1016/j.fusengdes.2016.02.023)
- **B. Weinhorst, U. Fischer, L. Lu, D. Strauss, P. Spaeh et al.**, Radiation level analysis for the port cell of the ITER electron cyclotron-heating upper launcher, *Fusion Eng. Des.* 109, 1437 (2016) [doi:10.1016/j.fusengdes.2015.12.003](https://doi.org/10.1016/j.fusengdes.2015.12.003)
- **D. Leichtle, M. Angelone, P. Batistoni, U. Fischer, A. Klix et al.**, The F4E programme on nuclear data validation and nuclear instrumentation techniques for TBM in ITER, *Fusion Eng. Des.* 89, 2169 (2014) [doi:10.1016/j.fusengdes.2014.02.056](https://doi.org/10.1016/j.fusengdes.2014.02.056)