

**Current positions**

Coordinator of the Tandem Accelerator Laboratory of the Division “Edge to Materials” (E2M), MPI for Plasma Physics, Garching (since 2013)
EUROfusion Project Leader WPPFC Subproject ‘PWI Processes: Erosion, Deposition, Mixing’ (since 2014)

Previous positions (two selected)

Long Term Visitor at the PISCES-B Facility at UCSD in the context of the EU-US collaborative experiments on “Mixed Material Effects on Erosion and Redeposition in Fusion Devices (2010/2011)
Senior Scientist at the Materials Research Division, MPI for Plasma Physics, Garching (2001-2011)

Scientific degrees

PhD in Physics, University of Bayreuth (2000)

Recent research topics

Transport and retention of hydrogen and helium in fusion relevant materials, displacement damage in tungsten, ion beam analysis

Publications (5 most important)

- E. A. Hodille, S. Markelj, **T. Schwarz-Selinger**, A. Založnik, M. Pečovnik, et al., Stabilization of defects by the presence of hydrogen in tungsten: simultaneous W-ion damaging and D-atom exposure, *Nucl. Fusion* 59, 016011 (2019) [doi:10.1088/1741-4326/aac97](https://doi.org/10.1088/1741-4326/aac97)
- **T. Schwarz-Selinger**, J. Bauer, S. Elgeti, S. Markelj, Influence of the presence of deuterium on displacement damage in tungsten., *Nuclear Materials and Energy* 17, 228 (2018) [doi:10.1016/j.nme.2018.10.005](https://doi.org/10.1016/j.nme.2018.10.005)
- **M. Guitart Corominas**, **T. Schwarz-Selinger**, Experimental determination of the $^{16}\text{O}(^3\text{He},\text{p})^{18}\text{F}$ differential cross section, *Nucl. Instrum. Meth.* 450, 13 (2019) [doi:10.1016/j.nimb.2018.05.018](https://doi.org/10.1016/j.nimb.2018.05.018)
- **T. Schwarz-Selinger**, Deuterium retention in MeV self-implanted tungsten: Influence of damaging dose rate. *Nuclear Materials and Energy* 12, 683 (2017) [doi:10.1016/j.nme.2017.02.003](https://doi.org/10.1016/j.nme.2017.02.003).
- S. Markelj, **T. Schwarz-Selinger**, and A. Založnik, Hydrogen isotope accumulation in the helium implantation zone in tungsten. *Nucl. Fusion* 57, 064002 (2017) [doi:10.1088/1741-4326/aa6b27](https://doi.org/10.1088/1741-4326/aa6b27).