

**Current positions**

Head of Division “Reactor Safety” at Institute of Resource Ecology, HZDR (since 2010)

Topic spokesperson “Reactor Safety” of the NUSAFE program (since 2015)

**Previous position**

Research fellow at Forschungszentrum Dresden-Rossendorf (FZD), Institute of Safety Research (1994-2010)

**Scientific degree**

Dr.-Ing. (PhD) in Nuclear Engineering, TU Dresden (2010)

**Recent research topics**

Coupling of reactor dynamics codes with thermal hydraulic system codes and Computational Fluid Dynamics Codes, experimental and analytical investigation of reactor coolant mixing

**Publications (5 most important)**

- **U. Rohde, S. Kliem, U. Grundmann, S. Baier, Y. Bilodid** et al., The reactor dynamics code DYN3D models, validation and applications, *Prog. Nucl. Energ.* 89, 170 (2016)
- **Y. Kozmenkov, S. Kliem, U. Rohde**, Validation and verification of the coupled neutron kinetic/thermalhydraulic system code DYN3D/ATHLET, *Ann. Nucl. Energy* 84, 153 (2015) [doi.org/10.1016/j.anucene.2014.12.012](https://doi.org/10.1016/j.anucene.2014.12.012)
- **A. Grahn, S. Kliem, U. Rohde**, Coupling of the 3D neutron kinetic core model DYN3D with the CFD software ANSYS CFX, *Ann. Nucl. Energy* 84, 197 (2015) [doi.org/10.1016/j.anucene.2014.12.015](https://doi.org/10.1016/j.anucene.2014.12.015)
- **S. Kliem, A. Grahn, Y. Bilodid, Th. Höhne**, A realistic approach for the assessment of the consequences of heterogeneous boron dilution events in pressurized water reactors, *Nucl. Eng. Des.* 349, 150 (2019) [doi.org/10.1016/j.nucengdes.2019.04.038](https://doi.org/10.1016/j.nucengdes.2019.04.038)
- **S. Kliem, Y. Kozmenkov, J. Hadek, Y. Perin, F. Fouquet** et al., Testing the NURESIM platform on a PWR main steam line break benchmark, *Nucl. Eng. Des.* 321, 8 (2017) [doi.org/10.1016/j.nucengdes.2017.05.028](https://doi.org/10.1016/j.nucengdes.2017.05.028)