

## Dr. Ralf König



### Current positions

Deputy Division Head “Stellarator Edge and Divertor Physics” (E4) and “Physics” Group Leader of the Division E4, MPI for Plasma Physics, Greifswald (since 2015)

### Previous positions (two selected)

Project Leader “W7-X Diagnostics”, MPI for Plasma Physics, Greifswald (2006-2010)

Responsible Officer for the Charge Exchange and Beam Emission Spectroscopy and Physicist in Charge, JET Joint Undertaking, Culham, UK, EURATOM (1989-1998)

### Scientific degree

PhD in Physics, Ruhr University Bochum (1989)

### Recent research topics

Edge and Divertor Physics, development of robust, stable detached plasma scenarios compatible with high core plasma performance

### Membership

Member and Stellarator Representative ITPA TG on Diagnostics (2003-2017)

### Publications/Patents (5 most important)

- **R. König, J. Baldzuhn, W. Biel, C. Biedermann, H. S. Bosch,** et al., The Set of Diagnostics for the First Operation Campaign of the Wendelstein 7-X Stellarator, *J. Instrum.* 10, P10002 (2015) [doi:10.1088/1748-0221/10/10/P10002](https://doi.org/10.1088/1748-0221/10/10/P10002)
- **H.-J. Hartfuss, R. König and A. Werner,** Diagnostics for Steady-State Plasmas, (Topical Review), *Plasma Phys. Contr. F.* 48, R83 (2006) [doi:10.1088/0741-3335/48/10/R01](https://doi.org/10.1088/0741-3335/48/10/R01)
- **R. König, P. Grigull, K. McCormick, Y. Feng, H. Ehmler,** et al., Divertors for helical devices: concepts, plans, results and problems, *Fusion Sci. Technol.* 46, 152 (2004) [doi:10.13182/FST04-A551](https://doi.org/10.13182/FST04-A551)
- **R. König, P. Grigull, K. McCormick, Y. Feng, J. Kisslinger,** et al., The Divertor Program in Stellarators, *Plasma Phys. Contr. F.* 44, 2365 (2002) [doi:10.1088/0741-3335/44/11/306](https://doi.org/10.1088/0741-3335/44/11/306)
- **R. König,** K.-H. Kolk, K. N. Koshelev, and H.-J. Kunze, Satellites to  $\Delta n=1$  Transitions between High Lying Levels of Multiply Charged Ionized Atoms, *Phys. Rev. Lett.* 62, 1750 (1989) [doi:10.1103/PhysRevLett.62.1750](https://doi.org/10.1103/PhysRevLett.62.1750)