

Dr. Rainer Burhenn



Current positions

Group Leader “Transport” (E5-Transport), MPI for Plasma Physics, Greifswald (since 2015)

Topical Group Coordinator “Impurity Transport (incl. Radiation)”, MPI for Plasma Physics, Greifswald (since 2019)

Responsible Officer for “C/O-Monitor Diagnostics”, MPI for Plasma Physics, Greifswald (since 2005)

Responsible Radiation Safety Officer for Wendelstein 7-X, MPI for Plasma Physics, Greifswald (since 2001)

Previous positions (two selected)

Head of “Core Diagnostics for W7-X” (E4; DIA-COR), MPI for Plasma Physics, Greifswald (2011-2015)

Group Leader of “Diagnostics I: Core Spectroscopy”, MPI for Plasma Physics, Greifswald (2009-2011)

Scientific degrees

Diploma in Physics, Ruhr University Bochum (1980)

PhD in Physics, Ruhr University Bochum (1985)

Recent research topics

Impurity transport diagnostics and analysis

Publications/Patents (5 most important)

- **R. Burhenn, Y. Feng, K. Ida, H. Maassberg, K. J. McCarthy, et al.**, On impurity handling in high performance stellarator/heliotron plasmas, *Nucl. Fusion* 49, 065005 (2009) [doi:10.1088/0029-5515/49/6/065005](https://doi.org/10.1088/0029-5515/49/6/065005)
- **R. Burhenn, J. Baldzuhn, C. Beidler, R. Brakel, H. Ehmler, et al.**, Transport of Impurity Ions in the Wendelstein 7-AS Stellarator Plasma, *AIP Conf. Proc.* 812, 19 (2006); [doi:10.1063/1.2168793](https://doi.org/10.1063/1.2168793)
- **R. Burhenn, J. Baldzuhn, R. Brakel, H. Ehmler, L. Giannone, et al.**, Impurity Transport Studies in the Wendelstein 7-AS Stellarator, *Fusion Sci. Technol.* 46, 115 (2004) [doi:10.13182/FST04-A547](https://doi.org/10.13182/FST04-A547)
- **R. Burhenn, A. Weller, the W7-AS Team, the NI Group and the ECRH Group**, Derivation of local impurity transport quantities from soft-x radiation evolution during tracer injection at W7-AS, *Rev. Sci. Instrum.* 70, 603 (1999) [doi:10.1063/1.1149357](https://doi.org/10.1063/1.1149357)
- **R. Burhenn, M. Anton, J. Baldzuhn, R. Brakel, L. Giannone, et al.**, Impurity transport investigations at W7-AS, *J. Plasma Fusion Res.* 1, 255 (1998) http://www.jspf.or.jp/JPFERS/PDF/Vol1/jpfrs1998_01-255.pdf