

**Current positions**

Division Head “Wendelstein 7-X Operations”, MPI for Plasma Physics, Greifswald (since 2013)

Professor, Technical University of Berlin (since 2017)

Previous positions (two selected)

Head of Directors Office in MPI for Plasma Physics (2000-2006)

Head of W7-X Project Coordination, MPI for Plasma Physics, Greifswald (2004-2012)

Scientific degrees

PhD in Physics, Technical University of Munich (1986)

Habilitation, Humboldt University of Berlin (2000)

Recent research topics

Plasma physics (fusion reaction products, helium exhaust, divertor modelling), coordination and operation of large plasma machines

Awards, honors, memberships

Otto Hahn Medal of the Max Planck Society (1987)

Member of the Fusion Technology Committee of the IEEE Nuclear & Plasma Science Society (NPSS) (since 2009)

Publications (5 most important)

- **H.-S. Bosch, T. Andreeva, R. Brakel, T. Bräuer, D. Hartmann**, et al., Engineering challenges in W7-X: lessons learned and status for the second operation phase, *IEEE Trans. Plasma Science* 46, 1131 (2018) [doi:10.1109/TPS.2018.2818934](https://doi.org/10.1109/TPS.2018.2818934)
- **H.-S. Bosch, R. Brakel, T. Bräuer, V. Bykov, P. van Eeten**, et al., Final integration, commissioning and start of the Wendelstein 7-X stellarator operation, *Nucl. Fusion* 57, 116015 (2017) [doi:10.1088/1741-4326/aa7cbb](https://doi.org/10.1088/1741-4326/aa7cbb)
- **T. Sunn Pederson, M. Otte, S. Lazerson, P. Helander, S. Bozhnikov**, et al., Confirmation of the topology of the Wendelstein 7-X magnetic field to better than 1:10,000, *Nat. Commun.* 7, 13493 (2016) [doi:10.1038/ncomm13493](https://doi.org/10.1038/ncomm13493)
- **R. Vilbrandt, H.-S. Bosch, J.-H. Feist**, Quality management system in fusion research – Experience from W7-X, *IEEE Trans. Plasma Science* 42, 3644 (2014) [doi:10.1109/TPS.2014.2359075](https://doi.org/10.1109/TPS.2014.2359075)
- **H.-S. Bosch, G. M. Hale.**, Improved formulas for fusion cross-sections and thermal reactivities, *Nucl. Fusion* 32, 611 (1992) [doi:10.1088/0029-5515/32/4/107](https://doi.org/10.1088/0029-5515/32/4/107)