

FUSION TOPIC 1: STELLARATOR RESEARCH

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Current positions

Topical Group Leader Profiles (Core Physics) on Wendelstein 7-X, MPI for Plasma Physics, Greifswald (since 2018)

Group Leader E3 (Core) Diagnostics on Wendelstein 7-X, MPI for Plasma Physics, Greifswald (since 2015)

Previous positions

Task Force Deputy Leader “Medium Sized Tokamaks”, MST1 (2013-2015) employed by UKAEA/CCFE, Abingdon, UK

based at: MPI for Plasma Physics, Garching

Management of MST Experiments for AUG, TCV and MAST-U

Group Leader of the Electron Kinetics Group, JET Joint European Torus, UKAEA/CCFE, Abingdon, UK (2005-2015)

JET Task Force Deputy Leader for Management of JET Experiments (2010-2012)

Scientific degree

PhD in Physics, Eindhoven University of Technology (1999)

Recent research topics

Core transport, pedestal physics, scenario development, ELM physics, profile reconstruction, inter-device comparisons, impurity seeding, metal vs carbon walls, tokamaks, stellarators

Publications (due to illness, no first author publications since 2016)

- **M. N. A. Beurskens, M. G. Dunne, L. Frassinetti, M. Bernert, M. Cavedon, et al.**, The role of carbon and nitrogen on the H-mode confinement in ASDEX Upgrade with a metal wall, *Nuc. Fusion* 56, 056014 (2016) [doi:10.1088/0029-5515/56/5/056014](https://doi.org/10.1088/0029-5515/56/5/056014)
- **M. N. A. Beurskens, L. Frassinetti, C. Challis, C. Giroud, S. Saarelma, et al.**, Global and pedestal confinement in JET with a Be/W metallic wall, *Nuc. Fusion* 54, 043001 (2014) [doi:10.1088/0029-5515/54/4/043001](https://doi.org/10.1088/0029-5515/54/4/043001)
- **M. N. A. Beurskens, J. Schweinzer, C. Angioni, A. Burckhart, C. D. Challis, et al.** The effect of a metal wall on confinement in JET and ASDEX Upgrade, *Plasma Phys. Control. Fusion* 55, 124043 (2013) [doi:10.1088/0741-3335/55/12/124043](https://doi.org/10.1088/0741-3335/55/12/124043)
- **M. N. A. Beurskens, L. Frassinetti, C. Challis, T. Osborne, P. B. Snyder, et al.**, Comparison of hybrid and baseline ELMy H-mode confinement in JET with the carbon wall, *Nuc. Fusion* 53, 013001 (2013) [doi:10.1088/0029-5515/53/1/013001](https://doi.org/10.1088/0029-5515/53/1/013001)
- **M. N. A. Beurskens, T. H. Osborne, P. A. Schneider, E. Wolfrum, L. Frassinetti, et al.**, H-mode pedestal scaling in DIII-D, ASDEX Upgrade, and JET, *Phys. Plasmas* 18, 056120 (2011) [doi:10.1063/1.3593008](https://doi.org/10.1063/1.3593008)