

Prof. Dr. Sibylle Günter



Current positions

Scientific Director of the MPI for Plasma Physics (since 2011)
Honorary Professor, Technical University of Munich (since 2006)
Adjunct Professor, University of Rostock (since 2001)

Previous position

Scientific Member of the Max-Planck Society and Director of the Tokamak Theory Department at MPI for Plasma Physics (2000-2011)

Scientific degrees

PhD in Physics, University of Rostock (1990)
Habilitation, University of Rostock (1996)

Recent research topics

Magnetohydrodynamic instabilities in tokamak and stellarator plasmas

Awards, honors, memberships

Federal Cross of Merit of Germany (2013), EPS Emmy Noether Distinction (2015), Bavarian Order of Merit (2017), National Academy of Science and Engineering (2015), Academia Europaea (2015), Swiss Academy of Engineering Sciences (2018)

Publications (5 most important)

- **Q. Yu, S. Günter, K. Lackner**, Suppressing magnetic island growth by resonant magnetic perturbation, *Nucl. Fusion* 58 054003 (2018) [doi:10.1088/1741-4326/aab2fb](https://doi.org/10.1088/1741-4326/aab2fb)
- **S. Günter, Q. Yu, K. Lackner, A. Bhattacharjee, Y-M. Huang**, Fast sawtooth reconnection at realistic Lundquist numbers, *Plasma. Phys. Contr. F.* 57, 014017 (2014) [doi:10.1088/0741-3335/57/1/014017](https://doi.org/10.1088/0741-3335/57/1/014017)
- **E. Strumberger, S. Günter, C. Tichmann**, MHD instabilities in 3D tokamaks, *Nucl. Fusion* 54, 064019 (2014) [doi:10.1088/0029-5515/54/6/064019](https://doi.org/10.1088/0029-5515/54/6/064019)
- **Q. Yu, S. Günter, K. Lackner**, Formation of plasmoids during sawtooth crashes, *Nucl. Fusion* 54, 072005 (2014) [doi:10.1088/0029-5515/54/7/072005](https://doi.org/10.1088/0029-5515/54/7/072005)
- I. Krebs, **M. Hoelzl, K. Lackner, S. Günter**, Nonlinear excitation of low-n harmonics in reduced magnetohydrodynamic simulations of edge-localized modes, *Phys. Plasmas* 20, 082506 (2013) <https://doi.org/10.1063/1.4817953>