

## ***Apl. Prof. Dr. Emanuele Poli***



### **Current positions**

Research Scientist of the Division “Tokamak Theory”, MPI for Plasma Physics (since 2001)

Adjunct (apl.) Professor, University of Ulm (since 2016)

### **Previous position**

Acting Division Head, “Tokamak Theory”, MPI for Plasma Physics (2014-2016)

### **Scientific degree**

PhD in Physics, University of Pavia (1999)

### **Recent research topics**

High-frequency waves in plasmas, heating & current drive, kinetic theory of plasmas, plasma instabilities

### **Publications (5 most important)**

- **E. Poli, A. G. Peeters, G. V. Pereverzev**, TORBEAM, a beam tracing code for electron-cyclotron waves in tokamak plasmas, *Comp. Phys. Comm.* 136, 90 (2001) [doi:10.1016/S0010-4655\(01\)00146-1](https://doi.org/10.1016/S0010-4655(01)00146-1)
- **E. Poli, A. G. Peeters, A. Bergmann, S. Günter, S. D. Pinches**, Reduction of the ion drive and  $\rho^*\theta$  scaling of the neoclassical tearing mode, *Phys. Rev. Lett.* 88, 075001 (2002) [doi:10.1103/PhysRevLett.88.075001](https://doi.org/10.1103/PhysRevLett.88.075001)
- **E. Poli, A. Bergmann, A. G. Peeters**, Role of kinetic effects on the polarization current around a magnetic island, *Phys. Rev. Lett.* 94, 205001 (2005) [doi:10.1103/PhysRevLett.94.205001](https://doi.org/10.1103/PhysRevLett.94.205001)
- **E. Poli, G. Tardini, H. Zohm, E. Fable, D. Farina, et al.**, Electron-cyclotron-current-drive efficiency in DEMO plasmas, *Nucl. Fusion* 53, 013011 (2013) [doi:10.1088/0029-5515/53/1/013011](https://doi.org/10.1088/0029-5515/53/1/013011)
- **E. Poli, C. Angioni, F. J. Casson, D. Farina, L. Figini, et al.**, On recent results in the modelling of neoclassical-tearing-mode stabilization via electron cyclotron current drive and their impact on the design of the upper EC launcher for ITER, *Nucl. Fusion* 55, 013023 (2015) [doi:10.1088/0029-5515/55/1/013023](https://doi.org/10.1088/0029-5515/55/1/013023)