

Pavlos Xanthopoulos Dr. Mr.

PERSONAL

Date of Birth: **February 3rd, 1975**
Nationality: **Greek**

CONTACT

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EDUCATION

PhD App. Mathematics, Technical University of Athens, Greece (2000-2003)
MSc App. Mathematics, Technical University of Athens, Greece (1998-2000)
BS Physics, National University of Athens, Greece (1992-1997)

POSITIONS

2015– : **Senior Scientist**, Max-Planck Institute for Plasma Physics
2008–2015 : **Scientist**, Max-Planck Institute for Plasma Physics
2007–2008 : **Post-doc collaborator**, Max-Planck Institute for Plasma Physics
2005–2007 : **Marie-Curie Fellowship**, Max-Planck Institute for Plasma Physics
2000–2003 : **Scientific collaborator**, National Research Center “Demokritos”

PUBLICATIONS

The complete list of peer-reviewed publications is found here: <https://www.pavlosipp.com/publications>.
Below are 10 selected publications:

1. *Coarse-grained gyrokinetics for the critical ion temperature gradient in stellarators*, G. T. Roberg-Clark, G. G. Plunk, and P. Xanthopoulos
Physical Review Research 4, L032028 (2022)
2. *Impact of Magnetic Field Configuration on Heat Transport in Stellarators and Heliotrons*, F. Warmer, K. Tanaka, P. Xanthopoulos, M. Nunami, M. Nakata et al.
Physical Review Letters 127, 225001 (2021)
3. *Turbulence Mechanisms of Enhanced Performance Stellarator Plasmas*, P. Xanthopoulos, S. A. Bozhnikov, M. N. Beurskens et al.
Physical Review Letters 125, 075001 (2020)
4. *Stellarators resist turbulent transport on the electron Larmor scale*, G. G. Plunk, P. Xanthopoulos, G. M. Weir, S. A. Bozhnikov et al.
Physical Review Letters 122, 035002 (2019)
5. *Distinct Turbulence Saturation Regimes in Stellarators*, G. G. Plunk, P. Xanthopoulos and P. Helander
Physical Review Letters 118, 105002 (2017)
6. *Intrinsic turbulence stabilization in a stellarator*, P. Xanthopoulos, G.G. Plunk, A. Zocco and P. Helander,
Physical Review X 6, 021033 (2016)

7. *Controlling turbulence in present and future stellarators*,
P. Xanthopoulos, H.E. Mynick, P. Helander, Y. Turkin, G.G. Plunk et al.
Physical Review Letters 113, 155001 (2014)
8. *Zonal flow dynamics and control of turbulent transport in stellarators*,
P. Xanthopoulos, A. Mischchenko, P. Helander, H. Sugama and T.-H. Watanabe,
Physical Review Letters 107, 245002 (2011)
9. *Optimizing stellarators for turbulent transport*,
H.E. Mynick, N. Pomphrey and P. Xanthopoulos,
Physical Review Letters 105, 095004 (2010)
10. *Nonlinear gyrokinetic simulations of Ion-Temperature-Gradient turbulence for the optimized Wendelstein 7-X stellarator*,
P. Xanthopoulos, F. Merz, T. Görler and F. Jenko,
Physical Review Letters 99, 035002 (2007)