



**UNIVERSITY OF CYPRUS**

POLYTECHNICAL SCHOOL AND PHYSICS DEPARTMENT

Fusion Research Team

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Head of Research Team :

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Staff:

- G. Georgiou- Assistant Professor
- Ch. Charalampous - Assistant Professor
- P. Razis- Professor
- A. Alexandrou- Professor
- A. Papadakis - Postdoc Reseracher
- D. Gregoriades - Postdoc Reseracher
- Hari Radhakrishnan - Postdoc Reseracher
- E. Demosthenous

Doctoral Candidate

Scientific Interests:

- Υπολογιστική ΜΥΔ και εφαρμογές στη ροή υγρών μετάλλων σε περιπλοκές γεωμετρίες και στη ροή

Publications in Fusion :

- **S. C. Kassinos, B. Knaepfen, D. Gavali** et al. of a passive Physics in Fusion, (1991) 005
- **A. Papadakis, G. E. Georgiades** et al. of a Metal Science Meas. and Modelling

- **S.C. Kassinos, B. Knaepen and A. Wray** "Three-dimensional MHD turbulence subjected to a shear flow" *Journal of Plasma Physics*, 76(2), 2006
- **A. Papadakis, G. E. Georghiou and A. C. Michalos** "Transition to turbulence in a rotating liquid metal flow" *Journal of Plasma Physics*, 76(2), 2006
- **A. Hallac, G. E. Georghiou and A. C. Michalos** "Transition to turbulence in a rotating liquid metal flow" *Journal of Plasma Physics*, 76(2), 2006
- **B. Knaepen, S. C. Kassinos and D. Carati** "Modeling of a liquid metal flow in a rotating channel" *Journal of Plasma Physics*, 76(2), 2006
- **Jungyeon Cho, A. Lazarus, Albert Honein, Benjamin Kuvshinov, Stavros Kassinos, Bernard Kuvshinov** "MHD flow in a rotating channel" *Journal of Plasma Physics*, 76(2), 2006
- **Daniele Carati, Stavros Kassinos, Bernard Kuvshinov** "MHD flow in a rotating channel" *Journal of Plasma Physics*, 76(2), 2006

Annual Reports:

- Annual Report 2007 [1.3-3. Use and development of MHD code in relation to liquid metal blanket](#)  
[1.4 Power and particle exhaust, plasma-wall interaction](#)  
[4.4 MHD flows and turbulences](#)
  - Annual Report 2008 [1.2.2 Particle transport model](#)  
[1.3.3 Effects of rotation on stability of multi-phase MHD turbulence](#)  
[1.5.2 Study of heating effects](#)  
[1.7.1 Development of computational fluid dynamics solvers for liquid-metal flows relevant to blanket modules](#)  
[1.7.3. Development of an immersed boundary solver for MHD flow for blanket modules \(DEMO incl.\)](#)  
[4.2.1 Car-Parinello modelling of proton-wall interaction](#)
- Annual Report 2009  
[1.2.2 Particle transport model](#)  
[1.3.3 Effects of rotation on stability of multi-phase MHD turbulence](#)  
[1.7.1 Development of computational fluid dynamics solvers for liquid-metal flows relevant to blanket modules](#)  
[1.7.3. Development of an immersed boundary solver for MHD flow for blanket modules](#)  
[3.4.2 Use of ab initio molecular dynamics to provide atomic/molecular data for the understanding of the chemical erosion at the plasma-wall interface \(in particular Be\)](#)  
[3.4.5 3D Spectral full MHD Code: Scalar and particle transport in MHD turbulence](#)

[Team's website](#)