



**UNIVERSITY OF CYPRUS**  
POLYTECHNICAL SCHOOL AND PHYSICS DEPARTMENT  
Fusion Research Team

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Staff:

- |                        |                     |
|------------------------|---------------------|
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| • 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 περίπλοκες γεωμετρίες και στη ροή

Publications in Fusion :

- **S. C. Kassinos, B. Knäfle, D. Sancilio, T. Tsytovich**, *On the formation of a passive plasma in a magnetized duct*, *Phys. Fluids*, 1996
- **A. Papadakis, G. E. Georgiadis, and A. C. Meyrand**, *Transport Coefficients in a Magnetized Plasma. II. Finite Larmor Radius Effects*, *J. Plasma Phys.*, 1996

## Annual Reports:

- Annual Report 2007
    - 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