



**NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS**

FACULTY OF PHYSICS

Fusion Research Team

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Staff:

- D. Frantzeskakis - Associate Professor
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- G. Latsas - Postdoc Reseracher
- Z. Ioannidis - Postdoc Researcher
- S. Mallios - Graduate Student
- A. Zelkas - Scientific Researcher
- M. Moraitou - Graduate Student
- D. Peponis - Student

Scientific Interests:

- Interaction of electronic beams and electromagnetic waves and their applications to the design of high-

Publications in Fusion:

- **Z. C. Ioannidis, O. Dumbrajs and I. G. Tigetis** "Dielectric inserts for genuinely wide-band waveguides" *IEEE Transactions on Plasma Science*, 30(2), 2002
- **Z. C. Ioannidis, G. P. Latsas, I. G. Tigetis and O. Dumbrajs** "The inner surface corrugation of a dielectric waveguide" *IEEE Transactions on Plasma Science*, 30(2), 2002
- **G. P. Latsas, J. L. Vomvolas, K. A. Avramides and I. G. Tigetis** "Structures in the design of a gyrotron" *IEEE Transactions on Plasma Science*, 30(2), 2002
- **G. Gantenbein, G. Dambra, J. Flaminio, S. Kerio, G. Latsas, C. Loeper, B. P. Prasad, R. S. Steinberg and I. G. Tigetis** "A gyrotron with a dielectric waveguide" *IEEE Transactions on Plasma Science*, 30(2), 2002
- **G. P. Latsas, M. D. Moraitou, Z. C. Ioannidis and I. G. Tigetis** "Resonant interactions in coaxial dielectric waveguides" *IEEE Transactions on Plasma Science*, 30(2), 2002
- **Z. C. Ioannidis, K. A. Avramides, G. P. Latsas and I. G. Tigetis** "Waveguide and coaxial dielectric resonator" *IEEE Transactions on Plasma Science*, 30(2), 2002

Annual Reports:

- Annual Report 1999-2000 [2a3\) Electromagnetic code for beam-tunnel spectrum 2c1\) Transport and chaos in fusion plasmas](#)
- Annual Report 2001 [2a3\) Electromagnetic code for beam-tunnel spectrum](#)
- Annual Report 2002 [2a3\) Electromagnetic code for beam-tunnel spectrum](#)
- Annual Report 2003 [2a3\) Electromagnetic code for beam-tunnel spectrum and slotted coaxial gyrotron cavities](#)
- Annual Report 2004 [2a3\) Electromagnetic code for](#)

[beam-tunnel spectrum and slotted coaxial gyrotron cavities](#)

- Annual Report 2005 [2a3\) Electromagnetic code for beam-tunnel spectrum and slotted coaxial gyrotron cavities](#)
- Annual Report 2006 [2a3\) Electromagnetic code for beam-tunnel spectrum and slotted coaxial gyrotron cavities](#)  
[2b3\) Calculation of electromagnetic field distribution on TORPEX](#)
- Annual Report 2007

[2.1-2. Electromagnetic code for beam-tunnel spectrum and slotted coaxial gyrotron cavities](#)

[2.2 Plasma diagnostics](#)

- Annual Report 2008 [2.1.3. Mathematical modelling and numerical codes for gyrotron beam-tunnels and cavities](#)  
[2.2.1 Numerical simulations for fusion electrodynamic systems](#)
- Annual Report 2009 [2.1.3. Mathematical modelling and numerical codes for gyrotron beam-tunnels and cavities](#)  
[2.2.1 Numerical simulations for fusion electrodynamic systems](#)

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