



HELLENIC REPUBLIC
National and Kapodistrian University of Athens
Department of Physics
Section of Astrophysics, Astronomy and Mechanics



Petros Ioannou

Title: Professor
Department: Physics
Phone: +30 210 727 6910 (office)
Fax: +30 210 727 6910 (office)
Email: pjioannou@phys.uoa.gr
Web page: <http://users.uoa.gr/~pjioannou/>

Academic Qualifications:

- MA, BA, Maths Cambridge University 1978
- Ph. D., M.Sc. App. Math Harvard University 1983

Appointments:

- 1991-1996: Post-Doctoral Fellow MIT (Dept. of Earth and Planetary Physics)
- 1996-2016: Associate Professor of Physics NKUoA (Department of Physics)
- 2016-present: Professor of Physics NKUoA (Department of Physics)

Teaching Activities: (current)

Undergraduate courses

- Analysis I
- Mechanics I
- Mechanics II
- Non-linear Dynamics

Graduate courses

- Theoretical Mechanics
- Non-linear Dynamics

Research Interests/Activities:

- Hydrodynamics
- Turbulence
- Climate Dynamics

Scientific Publications/Citations:

- 92 publications in refereed journals
- 7 chapters in Books
- 2 Book
- >4000 citations
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Top five publications

- Emergence of large scale structure in barotropic β -plane turbulence. Phys. Rev. Lett. 110, 2013
- Dynamics of streamwise rolls and streaks in turbulent wall-bounded shear flow. J. Fluid. Mech. 708, 2012.
- Structural stability of turbulent jets. J. Atmos. Sci. 60, 2003.
- Generalized Stability Theory. Part I: Autonomous operators. J. Atmos. Sci. 53, 1996.
- Gravitational tides in the outer planets. II. Interior calculations and estimation of the tidal dissipation factor. Astrophys. J. 406, 1993.

Distinctions:

- Scholar of the University of Cambridge