



HELLENIC REPUBLIC

**National and Kapodistrian University of Athens**

**Department of Physics**

Section of Astrophysics, Astronomy and Mechanics



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#### Academic Qualifications:

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

#### Teaching Activities:

Undergraduate courses

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

Graduate courses

- Theoretical Mechanics
- Non-linear Dynamics

#### Research Interests/Activities:

- Linear and nonlinear hydrodynamic stability
- Laboratory and planetary turbulence
- Climate Dynamics
- Dynamo Theory
- Pattern formation

#### Scientific Publications/Citations:

- 75 publications in refereed journals
- 7 chapters in Books
- 2 Books
- >3000 citations (1000 since 2012)
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#### Top five publications

- Emergence of large scale structure in barotropic  $\beta$ -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.