

## **PhD scholarships in the High Energy and Plasma Astrophysics Group at IAG-USP for 2015**

The High Energy and Plasma Astrophysics group of the Department of Astronomy of Instituto de Astronomia, Geofísica e Ciências Atmosféricas of the University of Sao Paulo (IAG-USP) invites applications for PhD fellowships in theoretical, computational and/or observational high energy and plasma astrophysics.

Selected applicants will be granted 4-year PhD fellowships (“doutorado-direto”) of the Sao Paulo State funding agency FAPESP. The Astronomy Department of IAG-USP provides a vibrant and productive international environment with 32 professors, 30 postdoctoral fellows, and 60 graduate students. The Astronomy Department hosts a 2304-core supercluster and the High Energy and Plasma Astrophysics group owes an 800-core cluster intended for numerical simulations, data analyses and storage.

Applicants should submit by email and in pdf format a **CV, Bachelor Diploma (or Proof of Completion/Certificate stamped by the University Authority), and Student Score Records**. In addition, applicants should arrange **for two letters of recommendation to be sent directly by email**.

**Applications should be sent to**

**Prof. Elisabete M. de Gouveia Dal Pino ([dalpino@iag.usp.br](mailto:dalpino@iag.usp.br)).**

**The main topics to be investigated include:**

- **Cosmic Ray Acceleration and Propagation: Theory, Numerical Simulations and Instrument Development for the CTA**
- **Magnetic Turbulence and Star Formation in all scales**
- **Origin of Cosmic Magnetic Fields and turbulence interlinks**
- **Plasma Physics phenomena around compact sources and black holes**

**Candidates applying for these PhD scholarships will also have to pass a selection process at IAG-USP, as described in the site:**

**<http://www.iag.usp.br/pos/astronomia/english/admission-process>**