

## Postdoc position (f/m) at the Space Research Institute in Graz ULF Waves in Venus's and Mars's Magnetosheath

The Space Research Institute (IWF) of the Austrian Academy of Sciences (ÖAW) is looking for a Postdoc to work on an Austrian Science Fund (FWF) funded 3 year project on the study of ULF waves in the magnetosheaths of Venus and Mars.

### Short summary:

The interaction of the solar wind magnetoplasma with the exospheres of the unmagnetized terrestrial planets, Venus and Mars, creates a bow shock and a so-called induced magnetosphere. For this current project, the ULF wave power in the magnetosheaths of Venus and Mars will be investigated. Both specific wave modes (e.g. mirror and ion cyclotron) and low-frequency turbulence will be studied as well as a possible difference in the behaviour of the bow shock for solar minimum and solar maximum conditions. The interactions of Venus and Mars with the solar magnetoplasma differ because of the different radii and distances from the Sun. The differences and similarities will teach us not only something about Venus and Mars, but the results will be generally applicable for other planets (even magnetized ones) and comets. (Full description can be found on the personal page under project number P 32035-N36.)

### We are offering:

- **A Postdoc position for 3 years (40 hours per week)** starting in the first half of 2019
- **Annual gross salary: € 66.070,00** funded by FWF under project **P 32035-N36**
- Workplace at the **Space Research Institute in Graz**, Austria ([www.iwf.oeaw.ac.at](http://www.iwf.oeaw.ac.at))
- Necessary computing infrastructure
- Working within a team of experts on magnetospheric and planetary plasma physics
- Travel budget to visit international conferences and collaborators

### We are looking for:

- **A Postdoc with a PhD in Space Plasma Physics** (or a related research area) and an affinity for Venus and Mars
- Good communicational and writing skills
- **Programming skills** in **MATLAB** (preferred), IDL, LaTeX

Applicants are invited to send their application documents (**cover letter, CV, publication list** and other information you deem important) via e-mail to Dr. Martin Volwerk ([martin.volwerk@oeaw.ac.at](mailto:martin.volwerk@oeaw.ac.at)), personal page: <http://www.iwf.oeaw.ac.at/user-site/martin-volwerk>. We accept applications until the position is filled.

The ÖAW is an equal opportunity employer (<https://www.oeaw.ac.at/die-oeaw/ueber-uns/gender-diversity/>).