



PhD position on extragalactic research at IRAM/Granada

The Instituto Radioastronomía Milimétrica (IRAM) in Granada/Spain is seeking an ambitious and highly motivated PhD student to work on observations and modelling of the interstellar medium in galaxies in the local universe and at high redshifts.

IRAM is an international research organisation for millimeter/submillimeter astronomy supported by the CNRS (France), the Max-Planck Gesellschaft (Germany), and the IGN (Spain). IRAM operates a 30-meter single-dish telescope located 50km from Granada in the Spanish Sierra Nevada and an interferometer of six 15-meter antennas located at Plateau de Bure in the French Alps near Grenoble.

The student will have the opportunity to join two recently accepted observing projects at the 30m telescope:

- a legacy survey to study cold gas scaling laws in the local universe (COLD GASS), and a
- search for C⁺ emission in quasars and galaxies at high redshifts.

The above projects will be conducted in close collaboration with G.Kauffmann at the MPA in Garching/Germany and with P.Cox at IRAM/Grenoble.

This work will be embedded in the main topic of the science group in Granada, the study of the dense interstellar medium in galaxies and its interplay with star formation. To this end, the group is also participating in a number of Herschel key programs: HERM33ES, WADI, and others. Depending on his/her interests, the student will be encouraged to join one of these projects.

The student will participate in the astronomer-on-duty service and will typically spend about one week every month at the 30m observatory, aiding visiting astronomers to conduct the observations.

A Masters degree (or equivalent) in Astronomy or Physics is required for this position, together with an excellent academic track record. The contract will be for up to 4 years. The PhD thesis will be coordinated with the Universidad de Granada.

For further information on the science group at IRAM/Granada, please visit the webpages at <http://www.iram.es/IRAMES/mainWiki/ScienceSupportGroup>.

Informal inquiries are welcome. Applications should include a letter of intent, curriculum vitae, education history, and two letters of reference. Selection of candidates will start February, 1, 2010, and will continue until the position is filled. The successful candidate could start as early as April 2010.

Please send applications to: Dr. Carsten Kramer, Director de Estacion, Instituto Radioastronomía Milimétrica (IRAM), Av. Divina Pastora 7, E-18012 Granada, Spain, Tel.: +34-958805461, kramer@iram.es

