Subject: PhD grant, Convective oscillations in spherical geometry, Barcelona

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Dear colleagues,

The Spanish agency of research has published the final list of funded
projects of the call for proposals of 2016.

One of the associated predoctoral grants corresponds to our project
(FIS2016-76525-P, Convective oscillations in spherical geometry:
stability and generation of magnetic fields). The work to do during
the PhD period will consist in continuing the development, together
with the researchers of the project, of algorithms and the associated
software for the computation of equilibria and periodic orbits, and
their bifurcations, for systems governed by parabolic

partial
differential equations. These codes will be applied to thermal
convection problems eventually coupled with the induction equation in
Cartesian or spherical geometries. Programming experience in either
Modern Fortran or C/C++ is expected or otherwise they will have to be
acquired at the beginning of the project, together with a basic
knowledge of Dynamical Systems and Numerical Methods.

We expect that the calling for these predoctoral fellowships will be
opened in a few months, and that the period to apply will be
short. Therefore possible candidates may contact the researchers of
the project Juan Sanchez Umbria
(juan.j.sanchez@upc.edu) and Marta Net
Marce (marta.net@upc.edu). Please send a PDF file
containing a CV.

J. Sanchez Umbria and M. Net.