

Postdoctoral position in the
Center for Theoretical Physics
Aix-Marseille University

The **AMIDEX Excellence Initiative** (Aix-Marseille University) announces a two-years post-doctoral position to work on the awarded project “Kinetic-Fluid-Computing” (KFC). We are looking for a theoretical/numerical physicist with or willing to acquire a strong background in Nonlinear Physics and/or Plasma Physics (Hamiltonian & Lagrangian dynamics). During his appointment the successful candidate will work on problems directly linked to the dynamics of charged particles evolving in a hot magnetized fusion plasmas. One of the particularity of this position is that it involves two specific institutes of the KFC project. As such, the postdoc will spend one year in each location, while it is expected that a strong collaboration will take place during the whole period.

- The first year will be based at the **Center for Theoretical Physics**, Marseille-Luminy, France
- The second year will be based at the **Institute for Research in Magnetic Confinement Fusion**, CEA-Cadarache, France

Keywords: Hamiltonian dynamics and chaos, Dispersion of passive tracers and Lagrangian transport, Dynamical reductions and Gyro-kinetics.

Eligibility requirements: Eligible candidates must hold a PhD or equivalent in physics, mechanics or mathematics. The starting date should be in the first half of 2015.

Application procedure: Applicants are invited to contact by email (in English or French) Xavier Leoncini, Michel Vittot, Xavier Garbet at the following addresses:
xavier.leoncini@cpt.univ-mrs.fr, michel.vittot@cpt.univ-mrs.fr, xavier.garbet@cea.fr,
with a curriculum vitae.

Application deadline: Open until filled.

Reference of the project: AMIDEX project “Emergence et Innovation, Fusion” A_M-AAP-EI FUSION-14-05-140530-18.06-SERRE-E