

POSTDOC : [FEMiNiST](#) : FErriMagNets Spin Torques

LOCATION : Orsay - France

Job description :

The aim of this project is to study the physics of current induced torques in ferrimagnetic nanostripes using magneto-transport measurements. Materials like ferrimagnets can shine new light on the interplay between magnetism and spintronics, and may lead to the development of low consumption magnetic storage devices with attractive dynamic capabilities. This project would hire a postdoc for 1 year to develop transport measurements to characterize current-induced torques. These experiments will be performed over a large range of temperature and magnetic field in order to take full advantage of the specificity of ferrimagnetic materials, the magnetic compensation with $M_S=0$. They will be compared to ongoing imaging studies on Domain Wall (DW) dynamics on the same systems. Another year of funding on a is available to EXTEND the postdoc on a very close TOPIC namely spintronics in antiferromagnets .

Co-workers : Joao Sampaio,¹ Vincent Cros² and Alexandra Mougin,¹

Laboratories involved :

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Applicants should be Ph-D in Physics with less than 2 years of experience.

They should send their CV and application letter to alexandra.mougin@u-psud.fr

Further information about the Imaging and Dynamics in MAGnetism team can be found on the website: <https://www.lps.u-psud.fr/>