

Flagship Project "SPiCY"

Meeting T0 + 23, Laboratoire de Physique des Solides

Monday, November 14th, 2022

14:00-14:15 Welcome of all partners and introduction

14:15-15:15 Presentations by the SPiCY students (15 min in total)

- 14:15-14:30 Magnetic skyrmion dynamics in synthetic antiferromagnets *Sujit Panigrahy (LPS)*
14:30-14:45 μ -BLS imaging of propagating spin wave in thin films *Sali Salama (C2N)*
14:45-15:00 Growth, characterization and spin-orbit torque switching of BiSb topological insulator/MnGa perpendicular ferromagnet systems *Diana She (UMPHY)*
15:00-15:15 Ultrafast pure spin current transport through antiferromagnetic insulators *Sanjay René (SPEC)*

15:15-17:15 Other presentations from SPiCY partners (15 min in total)

- 15:15-15:30 Magnetic and Structural Properties of Thin and Thick Synthetic Antiferromagnets *Asma Mouhoub (C2N)*

Coffee break

- 16:00-16:15 Magnetic bubbles in low-damping, ultra-thin garnets with perpendicular magnetic anisotropy *Diane Gouéré (UMPHY)*
16:15-16:30 Electrical Evidence And Modeling Of The Giant Non-Reciprocity of Spin-Waves In Synthetic Antiferromagnets *Florian Milo (C2N)*
16:30-16:45 Driving skyrmions with high mobility in synthetic ferrimagnets *Sougata Mallick (UMPHY)*
16:45-17:00 Material engineering for anisotropy-free CoFeB on various substrates *Rafael Lopes Seeger (SPEC)*
17:00-17:15 Antiferromagnetic spin textures in single domain BiFeO₃: bulk vs film *Pauline Dufour (UMPHY)*

17:15-17:45 Comité de pilotage

Retour sur l'Ecole SPiCY, infos PEPR SPIN, etc...

Vincent Cros