

Flagship Project "SPiCY"
Meeting T0 + 18, SOLEIL synchrotron
Monday, July 4th, 2022

09:00-09:15 Welcome of all partners and introduction

09:15-10:15 Presentations by the SPiCY students (15 min in total)

- 09:15-09:30 Growth, characterization and spin-orbit torque switching of BiSb topological insulator/MnGa perpendicular ferromagnet systems *Diana She*
- 09:30-09:45 Ultrafast pure spincurrent transport through antiferromagnetic insulators *Sanjay René*
- 09:45-10:00 Magnetic skyrmion dynamics in synthetic antiferromagnets *Sujit Panigrahy*
- 10:00-10:15 μ -BLS imaging of propagating spin wave in Bi- *Aya El Kanj/Ping Che*

Coffee break

10:30-11:30 other presentations from SPiCY partners (15 min in total)

- 10:30-10:45 Magnetic properties of the Co/hBN interface *Banan Kerdi*
- 10:45-11:00 AF skyrmion in multiferroic BiFeO₃: stability, dynamics and nucleation *Zixin Li*
- 11:00-11:15 Title *xxxxxxxxx*
- 11:15-11:30 Large interfacial Rashba interaction and giant spin-orbit torques in atomically thin metallic heterostructures *Sachin Krishnia*
- 11:30-11:45 Optimization of SOT for efficient skyrmion motion *Yanis Sassi*

11:45-12:15 Comité de pilotage

- 11:45-12:00 Présentation de l'Ecole SPiCY *Madjid Anane*
- 12:00-12:15 Points divers et clôture *Vincent Cros*



Friday 19th February 2016

8:30:00-12:00 Discussions on the WP objectives for the next period

- ✓ Short reminder of main objectives, milestones and deliverables
- ✓ Each WP leader will present some slides showing what they plan to do in the next period
- ✓ Discussions about samples to be prepared (who, for what, etc.), characterizations to be done
- ✓ Sample flow? Visits between partners
- ✓ Test systems for comparison between theory and experiments

8:30-9:30 WP1 : Static equilibrium properties of interface induced skyrmions in magnetic films and multilayers *R. Wiesendanger*

9:30-10:30 WP2 : Dynamic properties : nucleation, propagation and detection of skyrmions *C. Marrows*

Coffee break

10:50-11:30 WP3 : Theoretical and numerical investigation of skyrmion systems *S. Blügel*

11:30-12:00 WP4 : Towards skyrmion based devices *N. Reyren*

12:00 *End of meeting* - Departure depending on your train/plane schedule

