

“Exploring nanomagnetism in thin films”  
Workshop Nov 12 -14, 2019

Tuesday Nov 12

Time	Activity (location)
9:00 - 9:30 am	Welcome at BYU Physics (N347 ESC)
9:30 - 10:30 am	Visit of Chesnel Group Lab & instruments: VSM (Benson), MFM, EHE, MOKE, TEM (UGL)
10:30 - 11 am	Walk through department and campus
11:05 - 11:50 am	Performance Devotional (Marriot Center)
12:00- 13:00	Lunch at the Skyroom
Afternoon session in <b>N288 ESC</b>	
13:00 - 14:00	Talk 1: Chesnel group research overview Lab and tools at BYU (magnetometry & magnetic imaging) Overview of research activities in nanomagnetism
14:00 - 15:00	Talk 2: Hellwig group research overview Hellwig group lab and tools at TU Chemnitz and HZDR Overview of research activities on magnetic thin films
15:00- 15:30	Refreshment Break- discussion
15:30 - 16:30	Talk 3: Chesnel group Bubble-stripe domain transitions in Co/Pt films; MDM and magneto-transport in Co/Pt/IrMn films
16:30 - 17:15	Talk 4 : Hellwig group - Ruslan Salikhov Transient hysteresis loop features when going from in-plane to out-of-plane anisotropy in Co/Pt MLs

17:15 -18:00	Talk 5 : Hellwig group - Ruslan Salikhov Ferromagnetic (FM) stripe domains in perpendicular magnetic anisotropy (PMA) synthetic antiferromagnets (SAFs) with weak antiferromagnetic interlayer exchange coupling (AF - IEC).
19:00 -	Dinner (Bombay House)

## Wednesday Nov 13

Time	Activity (location)
9:00 - 10:00	Talk 6: David Allred- Thin film fabrication (N288)
10:00 - 11:00	Talk 7: Ben Frandsen - Muon & Neutron tools for exploring magnetism in nanomaterials (N288)
11:00 - 12:00	Refreshment Break and prep for colloquium (N288)
12:00 - 13:00	<b>Colloquium: Olav Hellwig (C215 ESC)</b> Magnetic Nanostructure Systems Designed for Data Processing, Transport and Storage Applications
13:00 - 14:00	Luncheon with students (C215 ESC) (sign-up only)
14:00- 18:00	Break - social activity Provo canyon - Sundance (weather permitted) Valley overview from Squaw Peak
19:00 -	Dinner (at Karine)

## Thursday Nov 14

Time	Activity - <b>WILK 3238 all day</b>
9:00 - 10:00	Talk 8: Hellwig group - Benny Böhm: The Surface Spinflap (SSF) in PMA SAFs with strong antiferromagnetic interlayer exchange coupling
10:00 - 10:15	Refreshment break
10:15 - 11:15	Talk 9: Richard Sandberg- synchrotron Coherent imaging and big data management
11:15 - 12:15	Talk 10: Chesnel group X-ray magnetic scattering studies on magnetic NPs
12:15- 13:15	Lunch at the Skyroom
13:30 - 14:30	Talk 11: Hellwig group - Fabian Samad: Global and local ion beam irradiation of PMA-SAFs
14:30 - 15:00	Refreshment Break and prep for CMS
15:00- 16:00	Talk 12: <b>Condensed Matter seminar: Olav Hellwig</b> The Physics of Perpendicular Anisotropy Layered Antiferromagnets
16:00- 17:00	Final discussions and Goodbye refreshments
17:00	Hellwig group leaves