

Tentative Programme

Summerschool on Condensed Matter Research, Zuoz, 17. August 2013 – 23. August 2013 Materials – Structure and Magnetism

	Sunday 18 Aug 2013	Monday 19 Aug 2013	Tuesday 20 Aug 2013	Wednesday 21 Aug 2013	Thursday 22 Aug 2013	Friday 23 Aug 2013
09:00 – 10:15	Introduction to Magnetism Andrew Boothroyd	Frustration – structure of material and symmetry of interactions Leon Balents	Introduction to Superconductivity – pairing mech, flux lines Hans Henning Klauss	Excursion	Imaging magnetic domains. (neutrons and photons) and domain dynamics Carlos Fernandes Vaz	Skyrmions Sebastian Mühlbauer
10:15 – 10:45	COFFEE	COFFEE	COFFEE		COFFEE	COFFEE
10:45 – 12:00	Introduction to materials structure and properties Bertram Batlogg	Ferroelectrics – materials and interactions Dennis Meier	Introduction to the Muon-Spin Rotation/Relaxation Technique – Using μ SR to Study Magnetism and Superconductivity Alex Amato		Proposed Ultrafast Structural and Magnetic Studies of Condensed Matter with the SwissFEL X-Ray Laser Bruce Patterson	ESS – new opportunities Colin Carlile
12:15 – 16:00	Lunch and Free Afternoon	Lunch and Free Afternoon	Lunch and Free Afternoon		Lunch and Free Afternoon	Closing remarks Lunch Departure
16:00 – 16:30	COFFEE	COFFEE	COFFEE	COFFEE	COFFEE	
16:30 – 17:45	Introduction to diffraction (neutrons and photons) Denis Sheptyakov	Spectroscopy neut. Magnetic excitations Bella Lake	Depth dependent investigations of thin films and heterostructures with polarized low energy muons Elvezio Morenzoni	Interfaces and heterostructures Phil Willmott	Novel routes to manipulate magnetic and crystal structures Urs Staub	
17:45 – 19:00	Magnetic structure determination (neutrons and photons) Jonathan White	Spectroscopy fotons RiXS Thorsten Schmitt	Electronic structure – Arpes Hugo Dil	Magnetism at interfaces Pietro Gambardella	Poster Session	
19:15 – 20:30	DINNER	DINNER	DINNER	DINNER	Apéro	
20:30 – 21:30	Predicting magnetic structures Ole Krogh Andersen	Multiferroics Thom Palstra	Magnetic semiconductors Tomas Jungwirth	Topological insulators Jürg Osterwalder	BANQUET	