

**Oxford School on Neutron Scattering, 2019, Week 1**

	2 Sep 2019	3 Sep 2019	4 Sep 2019	5 Sep 2019	6 Sep 2019
	Maths Day				
9:00	Trigonometry and Vectors (Langridge)	Neutron properties and interactions (Boothroyd)	Reciprocal space (Boothroyd)	Intro to spectroscopy (Boothroyd)	Use of coherent/ incoherent both Diff+Spec (Boothroyd)
10:00	Complex Numbers (Sivia)	Neutron Sources (Andersen)	Diffraction from crystalline materials (Henry)	Diffraction from surfaces (Fragneto)	Practical isotopic substitution /contrast matching (Fragneto)
11:00	Coffee Break				
11:30	Calculus and error propagation (Stewart)	Scattering Theory (Boothroyd)	Diffraction from non-crystalline materials (Cuello)	Neutron Instruments (Andersen)	Introduction to Polarized Neutrons (Nilsen)
12:30	Lunch				
14:00	<b>Tutorials</b>	Bus	<b>Tutorials</b>		
Gp 1	Stewart	Tour of ISIS	Stewart	Stewart	Stewart
Gp 2	Langridge		Andersen	Andersen	Andersen /Nilsen
Gp 3	Sivia		Cuello	Fragneto	Fragneto
Gp4			Henry	Henry	Henry
15:30	Coffee Break		Coffee Break		
16:00	Fourier Transforms (Sivia)		Student Presentations	Student Presentations	Practical Neutron Scattering (Stewart)
Evening	5:30 pm <b>Reception</b>	8 pm <b>Evening Lecture</b> <i>Prof W G Stirling</i>	8 pm <b>Evening Lecture</b> <i>Prof J S Higgins</i>	8 pm <b>Chadwick and Meitner</b> <i>Prof. G Lander</i>	8 pm <b>Pub Quiz</b> (St Anne's College Bar)

**Oxford School on Neutron Scattering, 2019, Week 2**

	9 Sep 2019			10 Sep 2019			11 Sep 2019			12 Sep 2019		
	Phys	Chem	Soft	Phys	Chem	Soft	Phys	Chem	Soft	Phys	Chem	Soft
9:00	Diffraction from Magnetic Materials (Qureshi)		SANS / SAXS (Edler)	Neutrons / X-rays in magnetism (Qureshi)	Molecular Spectroscopy-INS (Parker)		Spin Wave Theory (Lake)	Diff + SpecSurface Chemistry (Clarke)		Density Functional Theory (Refson)		
10:00	Measuring Phonons (Lander)		Dynamics of soft matter-QENS/NSE (Faraone)	Measuring Spin Waves (Lake)	Diffusion in solids + liquids (Faraone)		Magnetic strcuture refinement (Qureshi)	Diff+Spec Membranes (Garcia Sakai)		Thin Film Magnetism (Langridge)	MD simulations (Bresme)	
11:00	Coffee Break											
11:30	Neutron Compton Scattering (Senesi)			Local and Short-Range Magnetic Excitations (Lake)		WANS and WAXS, PDF (Edkins)	Neutron Imaging (Khardilov)			Designing Neutron Instruments (Bewley)		
12:30	Lunch											
14:00	Tutorials									Review Panel		
Gp 1	Lander			Lake			Lake					
Gp 2	Qureshi			Qureshi			Qureshi					
Gp 3	Senesi			Parker			Clarke					
Gp4	Faraone			Faraone/ Garcia			Khardilov					
Gp5	Edler			Edkins			Faraone/Garcia Sakai					
15:30	Coffee Break			Coffee Break			Coffee Break			Coffee Break		
16:00	Proposal Writing (Garcia Sakai)			Proposal Writing Session			Proposal Writing Session					
Evening	8pm <b>Games Night</b> (St Anne’s College Bar)			8 pm <b>Life sciences: proteins, protons, and liminal space</b> <i>Prof T Forsyth</i>						8 pm <b>Gala Dinner</b>		