



X-Ray and Neutron Science

7th ESRF/ILL International Student Summer Programme

5th September – 1st October 2021



Sunday, 5 September – Arrival

18:00 – 21:00 Welcome Buffet & Get Together with Tutors at Bistrot Marsellus

Monday, 6th September – Oral Sessions – ESRF Auditorium

09:00 – 10:30	Arrival at ESRF/ILL & Formalities ILL students: Medical Service + meet with your tutors ESRF students: Safety + meet with your tutors	
10h45 – 11:00	Welcome + General Information (Patrick Bruno ESRF, Paul Steffens ILL)	
11:00 – 12:00	Welcome address and presentation of the ESRF by Francesco Sette (ESRF Director General)	
12:00 – 13h30	<i>Lunch break (common restaurant on site)</i>	
13:30 – 15:30	Administrative formalities Safety: ESRF online training, ILL 13:30 – 15:00 (in person in room 7/8 - building ILL1)	
15:30 – 16:30	Welcome address and presentation of the ILL by Jacques Jestin (ILL Head of DPT)	

Tuesday, 7th September – Oral Sessions – ESRF Auditorium

09:00 – 10:00	Neutron Production	Ulli Köster (ILL)
10:00 – 10:30	<i>Break</i>	
10:30 – 11:30	Neutron Instrumentation	Eddy Lelièvre-Berna (ILL)
11:30 – 14:00	<i>Lunch break</i>	
14:00 – 15:00	Neutrons and their Interaction with Matter (part 1)	Mark Johnson (ILL)
15:00 – 15:30	<i>Break</i>	
15:30 – 17:00	Visit of the ILL	

Wednesday, 8 th September – Oral Sessions – ESRF Auditorium		
09:00 – 10:00	Principles of Synchrotron Radiation	Nicola Carmignani (ESRF)
10:00 – 10:30	Break	
10:30 – 11:30	X-ray Instrumentation	Raymond Barrett (ESRF)
11:30 – 14:00	Lunch break	
14:00 – 15:00	X-rays and their Interaction with Matter (part 1)	Luigi Paolasini (ESRF)
15:00 – 15:30	Break	
15:30 – 16:30	X-rays and their Interaction with Matter (part 2)	Luigi Paolasini (ESRF)

Thursday, 9 th September – Oral Sessions – ESRF Auditorium		
10:00 – 11:00	Neutrons and their Interaction with Matter (part 2)	Mark Johnson (ILL)
Rest of the day	Laboratory work	

Friday, 10th September – Laboratory work (project)

Monday, 13 th September – Oral Sessions – ESRF Auditorium		
09:00 – 10:00	Soft Matter Studies with X-rays	Narayanan Theyencheri (ESRF)
10:00 – 10:30	Break	
10:30 – 11:30	Neutron Diffraction	Juan Rodriguez Carvajal (ILL)
11:30	Lunch break	
Afternoon	Laboratory work (project)	

Tuesday, 14th September – Laboratory work (project)

Wednesday, 15 th September – Oral morning session – ILL Chadwick Amphitheatre		
09:00 – 10:00	X-ray Imaging	Alexander Rack (ESRF)
10:00 – 10:30	Break	
10:30 – 11:30	Soft Matter Studies with Neutrons	Giovanna Fragneto (ILL)
11:30	Lunch break	
Afternoon	Laboratory work (project)	

Thursday, 16th September – Laboratory work (project)

ILL Students: 8:30 – 12:00 Radioprotection Training (Chadwick Amphitheatre)

Friday, 17th September – Laboratory work (project)

Monday, 20th September - Oral morning session – ESRF Auditorium

09:00 – 10:00	X-ray Diffraction	Tobias Schulli (ESRF)
10:00 – 10:30	<i>Break</i>	
10:30 – 11:30	Neutron Spectroscopy	Andrew Wildes (ILL)
11:30	<i>Lunch break</i>	
Afternoon	Laboratory work (project)	

Tuesday, 21st September – Laboratory work

Wednesday, 22nd September - Oral morning session – ESRF Auditorium

09:00 – 10:00	Inelastic Neutron scattering	Mechthild Enderle (ILL)
10:00 – 10:30	<i>Break</i>	
10:30 – 11:30	Nuclear & Particle Physics	Olivier Zimmer (ILL)
11:30	<i>Lunch break</i>	
Afternoon	Laboratory work (project)	

Thursday, 23rd September – Laboratory work (project)

Friday, 24th September - Oral morning session – ESRF Auditorium

09:00 – 10:00	Magnetism and X-ray Dichroism	Andrei Rogalev (ESRF)
10:00 – 10:30	<i>Break</i>	
10:30 – 11:30	X-ray Studies under Extreme Conditions	Mohamed Mezouar (ESRF)
11:30	<i>Lunch break</i>	
Afternoon	Laboratory work (project)	

Monday, 27th September – Laboratory work (project)

Tuesday, 28 th September - Oral morning session – ESRF Auditorium		
09:00 – 10:00	Synchrotron Radiation and Structural Biology	Gordon Leonard (ESRF)
10:00 – 10:30	<i>Break</i>	
10:30 – 11:30	X-ray Coherence	Vincent Favre-Nicolin (ESRF)
11:30	<i>Lunch break</i>	
<i>Afternoon</i>	Laboratory work (project)	

Wednesday, 29th September – Laboratory work (project)

Thursday, 30 th September – Students' Workshop – ESRF Auditorium		
<i>Morning</i>	Laboratory work (project)	
<i>Session 1 & 2</i>		
14:00 – 15:30	Oral Presentations 1	
16:00 – 17:00	Oral Presentations 2	

Friday, 1 st October – Students' Workshop – ESRF Auditorium		
<i>Session 3 & 4</i>		
09:00 – 10:00	<i>Oral Presentations 3</i>	
10:30 – 12:00	Oral Presentations 4	

Friday evening: 19:00 – Farewell Dinner in town

Saturday, 2nd October: Departure

