

SISN TRAINING ON NEUTRON TECHNIQUES SUMMER SCHOOL " Neutron Diffraction and Structural Imaging"

S.Giovanni (Bz - Italy) 11-18 June 2022

Sunday 12		Monday 13		Tuesday 14		Wednesday 15		Thursday 16		Friday 17	
8:30-8:45	Introduction										
8:45-9:30	Mathematical methods for neutron scattering De Francesco	Neutron sources and Instrumentation Scherillo	8:30-9:15	Powder Diffraction Hansen	8:30-9:45	Neutron detectors Piscitelli	8:30-9:15	Theory of neutron imaging Kardjilov	Phase contrast Kardjilov		
9:30-10:15	Mathematical methods for neutron scattering	Neutron sources and Instrumentation	9:15-10:00	Powder Diffraction	9:45-11:00	Diffraction for Engineering Material Scherillo	9:15-10:00	Theory of neutron imaging	Polarized imaging		
10:15-10:30	break	break	10:00-10:30	break	10:00-10:30	break	10:00-10:30	break	break		
10:30-11:15	(Elements of) Theory of neutron scattering Magli	Diffraction in disordered systems Bafile	10:30-11:15	Diffraction on Magnetic Systems Colin	11:00-11:15	break	10:30-11:15	Instrumentation Schillinger	Grating Interferometry Strobl		
11:15-12:00	(Elements of) Theory of neutron scattering	Diffraction in disordered systems	11:15-12:00	Diffraction on Magnetic Systems	11:15-12:00	Diffraction Tutorials	11:15-12:00	Instrumentation	Neutron resonance imaging Fedrico		
12:00-13:30	Lunch break	Lunch break	12:00-13:30	Lunch break	12:00-13:30	Lunch break	12:00-13:30	Lunch break	Lunch break		
13:30-14:15	Physics of Sources Bidaud	(Elements of) Crystallography Capelli	13:30-14:15	Diffraction for Cultural Heritage Grazzi	13:30-14:15	Diffraction Tutorials	13:30-14:15	Energy selective imaging Strobl	Imaging Tutorials		
14:15-15:00	Physics of Sources	(Elements of) Crystallography	14:15-15:00	Diffraction for Energy Materials Ceretti	14:15-15:00	Diffraction Tutorials	14:15-15:00	DDIN and imaging Time of Flight concept and detectors Morgano	Imaging Tutorials		
15:00-15:30	break	break	15:00-15:15	break	15:00-15:30	Diffraction Tutorials	15:00-15:30	break	break		
15:30-16:15	Physics of Sources Reiter	Diff XSTAL Capelli	15:15-16:00	Computer Simulation for Disordered Sys. Gonzalez	15:30-16:15	free	15:30-16:15	Imaging Tutorials	Imaging Tutorials		
16:15-17:00	Physics of Sources		16:00-16:45	Diffraction Tutorials	16:15-17:00	free	16:15-17:00	Imaging Tutorials	Imaging Tutorials		
17:00-17:45	Physics of Sources		16:45-17:30	Diffraction Tutorials	17:00-17:45	free	17:00-17:45	Imaging Tutorials	TNT 2023&2024		
17:45-18:30	Physics of Sources Quintieri	Greeting of the SISN President Bruni	17:30-18:15	Diffraction Tutorials	17:45-18:30	free	17:45-18:30	Imaging Tutorials	Conclusions		
			18:15 -19:00	Diffraction Tutorials	18:30 -19:00						

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DIFFRACTION TUTORIALS
Topics and Tutors

XSTAL/ Capelli
MAGNETISM/Colin
POWDER/Hansen
DISORDERED/Gonzalez - Formisano
TOF POWDER / Scherillo

20h45-21:30	Luca Bindi <i>Capturing science in action: Can planetary collisions, atomic blasts and lightning strikes forge impossible materials?</i>	20h45-21:30	Leonardo del Rosso Structural insights from the ice phase diagram
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IMAGING TUTORIALS Topics	IMAGING TUTORIALS Tutors
Imaging and tomography Energy selective imaging ToF imaging Imaging and tomography Imaging on metals	Schillinger / Grazzi (if necessary) Strobl Fedrico Kardjilov Busi