



# TNT2024 Summer School

## Small-Angle Scattering & Reflectometry

San Giovanni in Valle Aurina (BZ, Italy)  
16 - 21 June 2024

## Programme

	Sunday, June 16, 2024	Monday, June 17, 2024	Tuesday, June 18, 2024	Wednesday, June 19, 2024	Thursday, June 20, 2024	Friday, June 21, 2024
08:30 09:15	<b>Mathematical methods</b> U. Bafile	<b>Fundamental of SANS</b> R. Schweins	<b>Introduction to NR</b> N. Paracini	<b>Neutron detectors</b> F. Piscitelli	<b>Applications of SANS to biology and biophysics</b> E. del Favero	<b>NR and magnetism with polarised neutron</b> T. Saerbeck
09:15 10:00						
10:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
10:30 11:15	<b>Theory of neutron scattering</b> E. Guarini	<b>Strategies of SANS data analysis 1 and presentation of Sasview</b> S. King	<b>Strategies of NR data analysis</b> E. Scoppola	<b>Bayesian methods</b> A. de Francesco	<b>Applications of SANS to chemistry and material Science</b> L. Caselli	<b>Applications of NR to biology and biophysics</b> A. Luchini
11:15 12:00		<b>Strategies of SANS data analysis 2 and presentation of Genfit</b> F. Spinozzi	<b>Analysis of NR data</b> M. Maccarini		<b>Applications of SANS to Heritage Science</b> C. Mondelli	<b>Applications of NR to Soft Matter</b> Y. Gerelli
	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
13:30 14:15	<b>Physics of neutron production</b> C. Reiter	<b>SANS collective tutorial - Overview of SANS instruments</b> S. King	<b>NR collective tutorial - Overview of NR instruments, monochromatic beam, TOF</b> N. Paracini		<b>SANS and simulations</b> M. Gonzales	<b>Application of NR to polymers</b> P. Gutfreund
14:15 15:00	<b>Physics of sources: nuclear reactors</b> C. Reiter	<b>SANS collective tutorial - Data collection/reduction</b> R. Schweins	<b>NR collective tutorial - Data collection/reduction</b> N. Paracini		<b>SANS group tutorials</b> F. Sebastiani, C. Ricci, S. Zorzi, L. Caselli	<b>NR group tutorials</b> Y. Gerelli, P. Gutfreund, A. Luchini, T. Saerbeck, F. Sebastiani
	Coffee break	Coffee break	Coffee break			
15:30 16:15	<b>Physics of sources: spallation sources</b> L. Quintieri	<b>SANS group tutorials</b> F. Spinozzi, S. King, A. Luchini, G. Vitiello	<b>NR group tutorials</b> M. Maccarini, F. Sebastiani, E. Scoppola, A. Luchini			
16:15 17:00						
17:00 17:45	<b>Physical basis of neutron detection</b> A. Pietropaolo					
17:45 18:30	<b>European neutron facilities</b> F. Piscitelli		<b>Presentation of the Italian Neutron Science Society</b>			<b>A walk through neutron techniques following a guiding thread</b> E. Guarini