

	Monday 28 August 2017		Tuesday 29 August 2017		Wednesday 30 August 2017		Thursday 31 August 2017		Friday 1 September 2017
Location	Seminar room at the gate ("Glaspalast"), Lichtenbergstraße 1		Library E40, Altes GRS- Gebäude, Walther-Meißner- Straße 1		Library E40, Altes GRS- Gebäude, Walther-Meißner- Straße 1		Library E40, Altes GRS- Gebäude, Walther- Meißner-Straße 1		Library E40, Altes GRS- Gebäude, Walther-Meißner- Straße 1
08:30-09:00	Opening & Introduction <i>Winfried Petry, MLZ</i> <i>Burkhard Schillinger, MLZ</i> <i>Nuno Barradas, IAEA</i> 30:00	08:30-09:30	Neutron grating Interferometry I <i>Tobias Neuwirth, MLZ</i> 45:00 + 15:00	08:30-09:30	Instrumentation and Instrument design for Neutron Imaging <i>Burkhard Schillinger, MLZ</i> 45:00 + 15:00	08:30-09:15	Applications of Neutron Imaging in Research and Industry <i>Michael Schulz, MLZ</i> 30:00 + 15:00	08:30-09:15	Imaging with polarized Neutrons <i>Nikolay Kardjilov, HZB</i> 30:00 + 15:00
09:00-09:45	Neutron Imaging Principles <i>Markus Strobl, PSI</i> 30:00 + 15:00	09:30-10:30	Neutron grating Interferometry II <i>Alexander Backs, MLZ</i> 45:00 + 15:00	09:30-10:30	Setting up a new imaging facility <i>Aaron Craft, INL</i> 45:00 + 15:00	09:15-10:00	Bragg Edge Imaging <i>Malgorzata Makowska, MLZ</i> 30:00 + 15:00	09:15-10:00	Neutron Depolarization Imaging <i>Marc Seifert, MLZ</i> 30:00 + 15:00
09:45-10:30	Mathematics of Computerized Tomography <i>Burkhard Schillinger, MLZ</i> 30:00 + 15:00					10:00-10:45	Bragg Edge Imaging applied to the steel of swords and helmets <i>Francesco Grazzi, UniFi</i> 30:00 + 15:00	10:00-10:45	Neutron Imaging facility ODIN at ESS <i>Michael Lerche, MLZ</i> 30:00 + 15:00
10:30-11:00	Coffee break	10:30-11:00	Coffee break	10:30-11:00	Coffee break	10:45-11:15	Coffee break	10:45-11:15	Coffee break
11:00-11:45	ANTARES and other Neutron Imaging Facilities <i>Michael Schulz, MLZ</i> 30:00 + 15:00	11:00-11:45	Tomography with fast fission neutrons at NECTAR and with Co-60 gammas at ITS <i>Thomas Bücherl, RCM</i> 30:00 + 15:00	11:00-11:45	Detectors for Neutron Imaging <i>(Manuel Morgano, PSI)</i> 30:00 + 15:00	11:15-12:00	IAEA e-learning tools <i>Nuno Barradas, IAEA</i> 30:00 + 15:00	11:15 -11:45	Neutron Generators <i>M. Taylor</i>
								11:45-12:15	Final discussion and closing <i>B. Schillinger/N. Barradas</i>
11:45-13:00	Lunch Courtesy of Diondo	11:45-13:00	Lunch	11:45-13:00	Lunch	12:00-13:00	Lunch	12:15 -13:00	Lunch and Departure
13:00-15:00	Experiments and Exercises I (4 groups)	13:00-15:00	Experiments and Exercises I (4 groups)	13:00-15:00	Experiments and Exercises II (4 groups)	13:00-15:00	Experiments and Exercises II (4 groups)		
15:00-15:30	Switch groups	15:00-15:30	Switch groups	15:00-15:30	Switch groups	15:00-15:30	Switch groups		
15:30-17:30	Experiments and Exercises I (4 groups)	15:30-17:30	Experiments and Exercises I (4 groups)	15:30-17:30	Experiments and Exercises II (4 groups)	15:30-17:30	Experiments and Exercises II (4 groups)		
		18:00	Beer garden in Garching – Hospitality by IAEA	17:30-19:00	Posters with beer and pretzels Courtesy of Volume Graphics Location: Library E40, Altes GRS-Gebäude, Walther- Meißner-Straße 1				

Exercises I:

- 1) Radiography and tomography at ANTARES (thermal and cold neutrons),
- 2) Radiography and tomography at NECTAR (fast fission neutrons),
- 3) Reactor tour,
- 4) Basic Image processing, CT reconstruction

Exercises II:

- 1) Neutron grating interferometry at ANTARES,
- 2) Dynamic imaging at NECTAR,
- 3) Radiography and tomography with Co-60 at ITS,
- 4) 3D rendering and image segmentation (Sandra Engels, Volume Graphics)

Sunday before: Excursion to Mount Wallberg + hike, in case of bad weather: Deutsches Museum, Munich

