INFN Istituto Nazionale di Fisica Nucleare
Laboratori Nazionali di Frascati

Stage International Masterclass in Modern Physics 2014

students infn-lnf

- PROGRAM -

Monday, February 10th, 9:00 am – Auditorium Bruno Touschek	
9:00 – 10:00	Registration
10:00 – 10:15	Welcome
10:15 – 11:00	Presentation of the INFN-LNF activities: from Particle and Nuclear Physics to Gravitational Waves (C. Curceanu)
11:00- 11:15	Coffe Break in atrium Alte Energie
11:15 – 12:15	How to study the Early Universe – the ALICE Experiment at CERN (P. Di Nezza)
12:15 – 13:15	Testing Fundamental Gravity with Satellite and Lunar Laser Ranging (S. Dell'Agnello)
13:15 – 14:30	Lunch
14:45 – 15:45	The eyes of scientists: the particle detectors (J. Zmeskal)
Tuesday, February 11th, 9:00 am – Auditorium Bruno Touschek	
9:15 – 10:15	The future FAIR facility: the European laboratory for studies of Particles and Nuclear Physics (P. Gianotti)
10:15 – 11:15	The Particle Physics Odyssey: where we are and where we are going (G. Isidori)
11:15 – 11:30	Break
11:30 – 12:30	The future of Accelerators: new concepts of how to accelerate particles (M. Ferrario)
12:30 – 13:30	The quest to understand the nature of Dark Matter and Dark Energy (A. Palladino)
13:30 – 14:30	Lunch
14:45 – 16:00	**Experiments:**
	1. introduction to Gravitational Waves (V. Fafone) — Auditorium Bruno Touschek
	2. introduction to Synchrotron Radiation (M. Cestelli Guidi) — Aula Seminari

Wednesday February 12th, 9:00 am – Auditorium Bruno Touschek		
9:30 – 13:15	**Experiments:**	
	1. Gravitational Waves (V. Fafone, M. Iannarelli, A. Rocchi)	Aula Conversi
	2. Synchrotron Radiation (M. Cestelli Guidi, G. Viviani)	Auditorium Bruno Touschek
13:30 – 14:30	Lunch	
14:45 – 15:45	Physics and Society: from health to art and much more (C. Curceanu)	
Thursday February 13th, 9:00 am – Auditorium Bruno Touschek		
9:30 – 13:15	**Experiments:**	
	3. Planck Constant (M. Mascolo)	Aula Seminari
	4. Electromagnetism (M. Bazzi, E. Sbardella)	Aula Conversi
13:30 – 14:30	Lunch	
14:45 – 15:45	Visit to INFN-LNF (M. Martini, K. Piscicchia)	
Friday February 14th, 9:00 am – Auditorium Bruno Touschek		
9:30 – 10:30	Working in an underground laboratory – what we study there? (C. Curceanu)	
10:30 – 11:30	In the Quantum World – towards the quantum technologies (F. Sciarrino)	
11:30 – 11:45	Break	
11:45 – 12:15	Space exploration, not only celestial bodies. A scientific approach to extraterrestrial life (M. Martini)	
12:15 – 13:30	Discussions, conclusions, participation certificates awarding and farewell	
13:30	Lunch	