

International School of Cosmic-Ray Astrophysics
<<M.M. Shapiro>>

**20th Course: "Particle, Gamma-ray and Neutrino Astrophysics
in the 21st Century"**

Directors: J.P. Wefel, T. Stanev, J. Hörandel
Secretary: Arthur Smith

Friday, 3 August 2016

Note: below "Break" denotes break for coffee and discussion and posters

Chair: Schlickeiser

09:00—10:00	Direct Cosmic Ray Detection (2)	Marrocchesi
10:00—11:10	Cosmic rays from the knee up to 10^{17} eV	Hörandel
11:00—11:30	Break	
11:30—12:30	Experimental data on the Highest Energy Cosmic Rays and prospects for the future	Watson
12:30—12:45	Propagation of ultra high energy cosmic rays with CRPRopa	Bouchachi

Chair: Stanev

15:00—16:00	The theory of Cosmic Ray Acceleration and Transport (1)	Schlickeiser
16:00 – 17:00	New results from the Fermi Large Area Telescope and future perspectives in High-Energy Gamma-Ray Astronomy	Morselli
17:00—17:30	Break	
17:30 – 18:30	Beyond the Cosmological Standard Model	Sarkar
	Visit Centre museums, access from Dirac Lecture hall.	

All the lectures take place in the Dirac Lecture Hall, San Domenico