

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, 5 August 2016

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

Chair: Halzen

09:00—10:00	Ultra-high energy cosmic rays II: the subtlety of the analysis, the grandeur of the inferences	Ghia
10:10—11:10	Sources of cosmological neutrinos and atmospheric backgrounds	Stanev
11:15—11:45	Break	
11:50—12:20	Study of the Galactic Center region with the ANTARES neutrino telescope	Gregorie
12:20—12:50	Accelerator measurements of radio emission from particle cascades in the presence of a magnetic field	Mulrey

Chair: Stanev

15:00—16:00	IceCube and the Discovery of High Energy Cosmic Neutrinos	Halzen
16:10 – 17:10	GALPROP as a user package and predictions of gamma ray profiles	Strong
17:15—17:45	Break	
17:50 – 18:50	High Energy Electrons (and Positrons): Balloon and Satellite Results	Wefel

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