

# International School of Cosmic-Ray Astrophysics

<<M.M. Shapiro>>

17<sup>th</sup> Course: Astro & Particle Physics: From Underground to Outer Space

Directors: J.P. Wefel and T. Stanev

Secretary Arthur Smith



Monday 12th July 2010

Note: below “Break” denotes break for coffee and discussion

Chair: Stanev

09:00—09:15	<b>Welcome &amp; Purpose of the Course</b>	Stanev/Wefel
09:15—10:00	<b>Cosmic Ray &amp; High Energy Physics: Historical Overview</b>	Wefel
10:00—11:00	<b>The Large Hadron Collider at CERN: An Experimental Overview</b>	Ferro
11:00—11:30	<b>Break</b>	
11:30—12:30	<b>Extreme Energy Cosmic Rays: Some History and Physics</b>	Matthews

Chair: Wefel

16:00—17:00	<b>Possible new Physics at the LHC and at the Largest Cosmic Ray Experiments: Complementarity</b>	Weiler
17:00—18:00	<b>Measuring Gamma Rays at High Energy with FERMI</b>	McEnergy
18:00—18:30	<b>Break</b>	
18:30—19:30	<b>Space Weather Status for Exploration Radiation Protection</b>	Lee

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