

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

**22<sup>nd</sup> Course: “From Cosmic Rays to Gravitational Waves:  
Now and to Come”**

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

**Tuesday, 2 August 2022**

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

Chair:

09:00—10:00	<b>Ultra high energy in the multi messenger era</b>	<b>Castellina</b>
10:00—11:00	<b>Ground-based Gamma-ray Astronomy with Imaging Air Cherenkov Telescopes</b>	<b>Stegmann</b>
11:00—11:30	<b>Break</b>	
11:30—12:30	<b>Cosmic-Ray Anisotropies in the TeV-PeV Range</b>	<b>Markus Ahlers</b>

Chair:

15:00—16:00	<b>Recent results from LHAASO and future arrays</b>	<b>Goodman</b>
16:00 – 16:15	<b>Cosmic Magnetic Fields and Cosmic Ray Propagation Connections</b>	<b>Faria</b>
16:15 –16:30	<b>PIC simulations of SNR’s shock waves with a turbulent upstream medium</b>	<b>Fulat</b>
16:30 – 16:45	<b>Study on the magnetized wind from white dwarfs</b>	<b>Zhong</b>
16:45 – 17:00	<b>Outflows Associated with Cosmic Rays and Waves</b>	<b>Ramzan</b>
17:00—17:30	<b>Break</b>	
17:30—19:30	<b>Poster session - courtyard San Rocco</b>	

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