



# PASTO - Particle Acceleration in Astrophysical Objects

## Monday, 5 September 2022

### Theory of Particle Acceleration in Astrophysical Environments (09:30 - 11:00)

-Conveners: Giovanni Morlino

time	[id] title	presenter
09:30	[50] Review talk: The surprising effectiveness of cosmic ray acceleration	BELL, Tony
10:25	[45] Thematic talk: Particle acceleration at nonrelativistic astrophysical shocks: eligibility to participate in the diffusive shock acceleration	Dr GUPTA, Siddhartha

### Theory of Particle Acceleration in Astrophysical Environments (11:30 - 12:25)

-Conveners: Giovanni Morlino

time	[id] title	presenter
11:30	[77] Thematic talk: From Turbulence to Reconnection to Particle Acceleration: Connecting the Dots	COMISSO, Luca
12:05	[29] Particle acceleration and plasma reconfiguration by magnetic reconnection in laboratory and astrophysical plasmas	Dr BURATTI, Paolo

### Theory of Particle Acceleration in Astrophysical Environments (13:40 - 15:30)

-Conveners: Frank Jenko

time	[id] title	presenter
13:40	[32] Reconnected Astrophysical Plasma results from PIC code simulations	Dr MENEGONI, Eloisa
14:00	[49] Thematic talk: The current state of the electron injection problem	BOHDAN, Artem
14:35	[31] Model of Gamma-ray Bubbles in the Galaxy and Relevant Mode Particle Interactions	CARDINALI, Alessandro Prof. COPPI, Bruno
14:55	[83] Thematic talk: Advances in particle acceleration at non-relativistic shocks: from plasma instabilities to entire supernova remnants	PFROMMER, Christoph