

Schedule of the School

(Update 27th June 2012)

	09:00 - 10:30	10:30 - 11:00	11:00 - 12:30	12:30 - 14:00	14:00 - 16:00	16:00 - 16:30	16:30 - 18:00	18:00 - 18:30	18:30-...	
Monday July 2	Arrival + Registration & Installation @ Hotel									
Tuesday July 3	From PP to ApP Pierre Salati	Coffee	γ detection Karl Kosack	Lunch	Accreting black holes Fulvio Melia	Coffee	Radiation mechanisms Malcolm Longair	Discussion	Cocktail	
Wednesday July 4	Radiation mechanisms Malcolm Longair		From PP to ApP Pierre Salati		CR sources Stefano Gabici		γ detection Karl Kosack	Discussion	Free	
Thursday July 5	High-Energy showers Ralph Engel		ν detection Elisa Resconi		Accreting black holes Fulvio Melia		Multi-Messenger astronomy Jacques Paul	Discussion		
Friday July 6	ν detection Elisa Resconi		GW detection Patrice Hello		CR sources Stefano Gabici		Discussion			
Saturday July 7	High-Energy showers Ralph Engel		GW detection Patrice Hello		Multi-Messenger astronomy Jacques Paul		Coffee	High-energy showers Ralph Engel	Discussion	Free
Sunday July 8	FREE									
Monday July 9	CR detection Piera Ghia	Coffee	ApP in space Olivier La Marle	Lunch	Explosive phenomena Frédéric Daigne	Coffee	Discussion	Poster Oral	Poster	Free
Tuesday July 10	Multi-messenger prospective Angela Olinto		Explosive phenomena Frédéric Daigne		Pulsars & PWN Elena Amato		Discussion	Poster Oral	Poster	
Wednesday July 11	Multi-messenger prospective Angela Olinto		Exotic physics Edward Rocky Kolb		Pulsars & PWN Elena Amato		Seminar Joseph Silk	Discussion		
Thursday July 12	CR detection Piera Ghia		ApP in space Olivier La Marle		Exotic physics Edward Rocky Kolb		Discussion	Poster	Poster Prize	
Friday July 13	Departure									

Topics

Introductory Lectures		
From PP to ApP	From particle physics to astroparticle physics	Pierre Salati
Multi Messenger astronomy	Multi Messenger astronomy	Jacques Paul
Radiation mechanisms	Radiation mechanisms	Malcolm Longair
High-Energy showers	High-energy showers	Ralph Engel
High-Energy Lectures		
CR sources	CR sources, shock acceleration and propagation: CRs, gamma, neutrinos	Stefano Gabici
Explosive phenomena	Explosive phenomena: SNe and GRBs	Frédéric Daigne
Accreting black holes	Accreting black holes and neutron stars: gravitational waves, gamma	Fulvio Melia
Pulsars & PWN	Pulsars and pulsar wind nebulae: CR electrons and positrons, gamma	Elena Amato
Experiment related Lectures		
ν detection	Neutrino detection and weak signals: example IceCube	Elisa Resconi
CR detection	CR detection: example Auger	Piera Ghia
γ detection	Gamma-ray detection, background rejection and subtraction: example HESS 2	Karl Kosack
GW detection	Gravitational wave detection and Fourier methods: example Virgo+	Patrice Hello
ApP in space	Astroparticles in space: specificities of space (or balloon) experiments	Olivier La Marle
Concluding Talks		
Multi-messenger prospective	Multi-messenger prospective	Angela Olinto
Exotic physics	Exotic physics: dark matter, dark energy	Edward Rocky Kolb