



Cosmic rays and neutron monitors- a training course in science and applications

Monday September 14, 2009		
09:00-09:15	Welcome, Opening	
Chair: C. Steigies (Aristotelis Conference Hall)		
09:15-09:45	Introductory Overview (<i>E. Flueckiger, Bern</i>)	
09:45-11:00	Origin and propagation of GCR (<i>K. Herbst / B. Heber, Kiel</i>)	
11:00-11:30	Coffee break	
11:30-12:45	Particle propagation in magnetic fields : Heliosphere, Earth's Magnetosphere (<i>K. Kudela, Kosice</i>)	
13:00-15:00	Lunch	
Chair: H. Mavromichalaki		
15:00-17:30	LAB1 Room A (No. 1-26)	CR propagation in the Earth's magnetosphere (<i>K. Kudela, M. Papailiou</i>)
15:00-17:30	LAB2 Room B (No. 27-55)	From cosmic ray spectra to the estimation of radiation hazards to aircraft crew (<i>R. Buetikofer, N. Fuller</i>)
17:30-18:00	Coffee break	
18:00-19:30	Students' oral & poster presentations	
	Dinner	
Tuesday September 15, 2009		
Chair: K. Kudela (Secretariat Room)		
09:00 –10:30	CR interaction with the Earth's atmosphere and environment I (<i>E. Flueckiger, Bern</i>)	
10:30-11:00	Coffee break	
11:00-12:45	Neutron monitors I (<i>R. Buetikofer, Bern</i>)	
13:00-15:00	Lunch	
Chair: E. Eroshenko		
15:00-17:30	LAB1 Room A (No. 27-55)	CR propagation in the Earth's magnetosphere (<i>K. Kudela, M. Papailiou</i>)
15:00-17:30	LAB2 Room B (No. 1-26)	From cosmic ray spectra to the estimation of radiation hazards to aircraft crew (<i>R. Buetikofer, N. Fuller</i>)
17:30-18:00	Coffee break	
18:00-19:30	Students' oral & poster presentations	
	Dinner	
Wednesday September 16, 2009		
Chair: E. Flueckiger (Secretariat Room)		
09:00-10:45	Neutron monitors II (<i>R. Buetikofer, Bern</i>)	
10:45-11:15	Coffee break	
11:15-12:45	Origin of SCR : Flares, CMEs, SEP events (<i>K.-L. Klein, Meudon</i>)	
13:00-15:00	Lunch	
	Excursion (Guided tours at Acropolis Site & Acropolis new Museum)	

Thursday September 17, 2009		
Chair: N. Fuller (Secretariat Room)		
09:00 -10:30	The interplanetary medium: models and observations (<i>R. Wimmer -Schweingruber, Kiel</i>)	
10:30-11:00	Coffee break	
11:00-12:00	New technologies for CR detection (<i>A. Chilingarian, Aragats</i>)	
12:00-13:00	Neutron monitors-Worldwide Networks (<i>H. Mavromichalaki, Athens</i>)	
13:00-15:00	Lunch	
Chair: O. Malandraki		
15:00-17:30	LAB3 Room C (No 1-26)	GLE alert and the prediction of SEP events using NM data (<i>G. Souvatzoglou, E. Eroshenko, O. Kryakunova</i>)
	LAB4 Room A (No 27-55)	Prediction of CME arrival at Earth using NM data (<i>E. Eroshenko, O. Kryakunova, A. Papaioannou</i>)
17:30-18:00	Coffee break	
18:00-19:30	Visit at the Athens Neutron Monitor Station (<i>C. Sarlanis, Athens & R. Buetikofer, Bern</i>)	
	WP3 meeting for NMDB participants	
	Dinner	
Friday September 18, 2009		
Chair: R. Buetikofer (Secretariat Room)		
09:00-10:45	The Heliosphere and galactic cosmic rays : modulation, Forbush decreases (<i>A. Belov, Moscow</i>)	
10:45-11:15	Coffee break	
11:15-12:45	Space Weather and the Earth's magnetosphere (<i>I. Daglis, Athens</i>)	
13:00-15:00	Lunch	
Chair: I. Usoskin		
15:00-17:30	LAB3 Room C (No 27-55)	GLE alert and the prediction of SEP events using NM data (<i>G. Souvatzoglou, E. Eroshenko, O. Kryakunova</i>)
	LAB4 Room A (No 1-26)	Prediction of CME arrival at Earth using NM data (<i>E. Eroshenko, O. Kryakunova, A. Papaioannou</i>)
17:30-18:00	Coffee break	
	Dinner	
20:00	Public Talk by S. Krimigis at the Central Building of Athens University / Reception at the 'Kostis Palamas'	
Saturday September 19, 2009		
Chair: K-L. Klein (Secretariat Room)		
09:00 -10:00	CR interaction with the Earth's atmosphere and environment II (<i>E. Flueckiger, Bern</i>)	
10:00-11:00	CR and climate - a causal relationship? (<i>I. Usoskin, Oulu</i>)	
10:00-11:00	Coffee break	
11:00-11:30	Discussion	
11:30-12:30	Closing	
13:00-14:00	Lunch	
14:00	Optional excursion (Mycenae / Nafplio)	

- LAB1:** Computer Room A at Physics Department (Ground floor)
LAB2 : Computer Room B at Physics Department (Ground floor)
LAB3 : Computer Room C at Geology Department
LAB4: Computer Room A at Physics Department (Ground floor)

