

**"Second Training School of the PITHIA-NRF Plasmasphere Thermosphere and Ionosphere Integrated Research Environment supported by T-FORS Machine Learning models" Programme**

	Monday, 5 February 2024	Tuesday, 6 February 2024	Wednesday, 7 February 2024	Thursday, 8 February 2024	Friday, 9 February 2024					
8:30						8:30				
8:45		Walk in	Walk in	Walk in	Walk in	8:45				
9:00									9:00	
9:15									9:15	
9:30									9:30	
9:45									9:45	
10:00		"Fundamentals in thermosphere", Sean Bruinsma (CNES)	"LSTIDs: sources, propagation characteristics, detection techniques", David Altadill (OE)	"MSTIDs: sources, propagation characteristics, detection techniques", Sivakandan Mani (IAP-L)	Work Groups in Action	10:00				
10:15						10:15				
10:30						10:30				
10:45		Coffee Break	Coffee Break	Coffee Break	Coffee Break	10:45				
11:00						11:00				
11:15		"ML-AI", Giovanni Lapenta (KU Leuven)	"Dynamic kinetic model of the plasmasphere", Viviane Pierrard (BIRA-IASB)	"TID nowcasting models - MSTIDs (focused on CDSS)", TBC (IAP-P)	Work Groups in Action	11:15				
11:30									11:30	
11:45							11:45			
12:00		"Instrumentation (ground and space)", Tobias Verhulst (RMI)	"Themospheric models", Sean Bruinsma (CNES)	"TID forecasting models - MSTIDs", Sivakandan Mani (IAP-L)			12:00			
12:15	Registration / Opening									12:15
12:30								12:30		
12:45				"Ionospheric irregularities & scintillations", Luca Spogli (INGV)	TBD			12:45		
13:00							13:00			
13:15		Lunch Break	Lunch Break	Lunch Break	Lunch Break	13:15				
13:30										13:30
13:45										13:45
14:00						14:00				
14:15	"Solar wind - magnetosphere interactions", Stefaan Poedts (KU Leuven)	"PITHIA-NRF e-Science Centre: how to discover, access, register data collections", Tamas Kiss (UoW)	"EISCAT data collections", Anders Tjulin (EISCAT)	Lunch Break	Work Groups Presentations	14:15				
14:30										14:30
14:45								14:45		
15:00		"Heliospheric data and model results", Michaela Brchnelova (KU Leuven)	"GIM maps", Manuel Hernandez-Pajares (UPC)	Work Groups Introduction & Kick-off			15:00			
15:15	Coffee Break							15:15		
15:30							15:30			
15:45	"Fundamentals in plasmasphere", Fabien Darrouzet (BIRA-IASB)	Coffee Break	Coffee Break	Coffee Break	Evaluation of Work Groups Results	15:45				
16:00							16:00			
16:15		"Ionospheric predictions for large scale storms", Anna Belehaki (NOA)	"TID nowcasting models - LSTIDs", Antoni Segarra (OE)	Work Groups in Action	Announcement of Work Groups Evaluation	16:15				
16:30										16:30
16:45						Farewell	16:45			
17:00	"Foundametals in ionosphere", Luca Spogli (INGV)	TBD	"TID forecasting models - LSTIDs", Luca Spogli/Claudio Cesaroni (INGV)				17:00			
17:15								17:15		
17:30									17:30	