

Sunday 27 August 2023

Time	Details	Notes
12:00 - 23:00	Check-in at Novotel Chiang Mai Nimman Journey Hub	For participants from outside of Chiang Mai

Monday 28 August 2023

Time	Details	Notes
08:00 - 08:45	Registration and Badge Pick-Up	For “all” participants
08:45 - 09:00	Opening Ceremony	NARIT’s Executive Director
09:00-9:45	Intro to NARIT’s High-Performance Computing System: CHALAWAN	Utane Sawangwit
09:45-10:45	Intro to Python and DS9	Kanthanakorn Noysena
10:45 - 11:00	Coffee+Tea Break	
11:00 - 12:00	Hands-On Task #0: Code / Compile / Debug	
12:00 - 13:00	Lunch	
13:00 - 14:00	Intro to Observational Astronomy (Optical Bands)	Nicha Leethochawalit
14:00 - 15:30	CCD/Image Processing And Basic Data Reduction	Nicha Leethochawalit
15:30 - 15:45	Coffee+Tea Break	
15:45 - 16:45	Hands-On Task #1: Reducing Raw Frames to Ready-to-Use Science Images	
16:45 - 17:00	Hack Challenges (Explaining the Groups, the game, and the rules)***	Krittapas Chanchaiworawit
17:00	End of Day	

Tuesday 29 August 2023

Time	Details	Notes
08:00 - 09:00	Registration (Re-check)	For “ all ” participants
09:00-10:30	Astrometry and Photometry: WCS alignment / Flux Calibration / Aperture Photometry / PSF Photometry	Samaporn Tinyanont
10:30 - 10:45	Coffee+Tea Break	
10:45 - 12:30	Hands-On Task #2: Align / Combine / Flux Calibrate / Extract Photometry	
12:30 - 13:30	Lunch	
13:00 - 14:00	Intro to Transient Objects and Light-Curve Analysis (Supernovae / Novae / Flares and Beyond)	Samaporn Tinyanont
14:00 - 15:00	Hands-On Task #2: Light-Curve Analysis	
15:00 - 15:15	Coffee+Tea Break	
15:15 - 16:00	Intro to image subtraction and transient detection	Sergey Karpov
16:00 - 17:00	Hands-On Task #3: Find that Blink	
17:00	End of Day	

Wednesday 30 August 2023

Time	Details	Notes
08:00 - 09:00	Registration (Re-check)	For “ all ” participants
09:00-10:00	Intro to Long-Slit Optical / NIR Spectroscopy	Samaporn Tinyanont
10:00 - 10:15	Coffee+Tea Break	
10:15 - 12:00	Hands-On Task #4: Reduce and Extract Spectrum	
12:00 - 13:00	Lunch	
13:00 - 14:00	Intro to 1D Spectroscopy Analysis: Line Profile / Template Fitting / PCA	Krittapas Chanchaiworawit
14:00 - 15:00	Hands-On Task #5: Line Profile Fitting and Extraction	
15:00 - 15:15	Coffee+Tea Break	
15:15 - 16:00	Hands-On Task #6: Template Fitting	
16:00 - 17:00	Hacks Challenge Time	Krittapas Chanchaiworawit
17:00	End of Day	

Thursday 31 August 2023

Time	Details	Notes
08:00 - 09:00	Registration (Re-check)	For “ all ” participants
09:00-10:00	Intro to Machine Learning with Python (SOM / Random Forest / CNN)	Krittapas Chanchaiworawit
10:00 - 10:15	Coffee+Tea Break	
10:15 - 11:30	Hands-On Task #7: Stars / Galaxies / Apples / Oranges	
11:30 - 13:00	Lunch	
13:00 - 14:00	Beyond the Visible Light	Matipon Tangmatitham
14:00 - 14:15	Coffee+Tea Break	
14:15 - 14:45	Hacks Challenge Awards and Closing Ceremony	NARIT’s Executive Director (Pending Confirmation)
14:45	Have a safe trip home!	