

Bootcamp (Sunday - July 24, 2022)			
Section	Time (GMT+7)	Lecturer	Topic
Morning	9:00-12:00	Thiem Hoang	Astrophysics of Cosmic Dust
Lunch Break			
Afternoon	14:00-17:00	Kate Pattle	Data reduction and analysis of the JCMT/POL-2 polarimeter

Day 1 (Monday - July 25, 2022)				
Section	Time (GMT+7)	Speaker	Title	Note/Chair
Morning	8:30-9:00	Registration		
	9:00-9:30	Welcome and Opening Session		Joint session
	9:30-10:00	SAGI Kick-off meeting		
	10:00-10:15	Introduction of SAGI Astrophysics Workshop		
	10:15-10:30	Introduction of Nuclear Astrophysics & Cosmic Rays Conference		
	10:30-11:00	Coffee Break & Discussion		
	11:00-11:40	Hien T. Nguyen	CMB and Dust Polarization	
	11:40-12:30	Discussion		
Lunch Break				
Afternoon	14:00-14:40	Thiem Hoang	Physics of dust polarization: grain alignment and disruption	Pham Ngoc Diep
	14:40-15:20	Stefan Reissl	On the alignment dynamics of rotating grains	
	15:20-15:40	Nguyen Chau Giang	Physical Modeling of Dust Polarization from Grain Alignment by Radiative Torques and Magnetic Relaxation in Protostellar Cores with POLARIS	
	15:40-16:00	Coffee Break		
	16:00-16:40	Pham Ngoc Diep	Dust polarization in protostellar cores	Thiem Hoang
	16:40-17:20	Amikasa Kataoka	Millimeter-wave polarization of protoplanetary disks through ALMA observations	
	17:20-17:50	Discussion		

Day 2 (Tuesday - July 26, 2022)				
Section	Time (GMT+7)	Speaker	Title	Chair
Morning	9:00-9:40	Blakesley Burkhart	Advancing New Diagnostics for Turbulence in Astrophysics and Beyond	Joint session (Chair Thiem Hoang)
	9:40-10:20	Kate Pattle	Dust polarization and interstellar magnetic fields: from star formation to galaxy evolution	
	10:20-10:50	Coffee Break		
	10:50-11:30	Axel Brandenburg	Homochirality: a prerequisite or consequence of life?	Joint session
	11:30-12:10	Dimitra Atri	Cosmic Rays and Habitability	
	12:10-12:30	Joint Discussion		
Lunch Break				
Afternoon	14:00-14:40	Vo Hong Minh Phan	Low-energy cosmic rays and their impact on interstellar gas	Joint session
	14:40-15:20	Vincent Tatischeff	On the origin of Galactic comic rays	
	15:20-15:50	Joint Discussion		
	15:50-16:20	Coffee Break & End of Joint Session		
	16:20-17:00	Jungyeon Cho	A Modified DCF Technique	Blakesley Burkhart
	17:00-17:20	Nguyen Bich Ngoc	Observations of Magnetic Fields in the Snake filament using SOFIA/HAWC+	
	17:20-17:40	Tran Quang Vinh	Observation of Magnetic Fields and Dust Inside the Pillars of Creation with SOFIA/HAWC+	
	17:40-18:10	Discussion		

Day 3 (Wednesday - July 27, 2022)				
Section	Time (GMT+7)	Speaker	Title	Chair
Morning	9:00-9:40	Alex Lazarian	Gradient Technique: New Way to Study Magnetic Fields in Astrophysics	Jungyeon Cho
	9:40-10:20	Huirong Yan	4D Magnetic field measurement with atomic alignment	
	10:20-10:40	Vo Hong Minh Phan	Bayesian inference of three-dimensional Galactic HI maps	
	10:40-10:50	Coffee Break		
	10:50-11:30	Le Ngoc Tram	Grain alignment and magnetic fields in star-forming regions	Kate Pattle
	11:30-11:50	Hyeseung Lee	Physical model of dust polarization by RAT alignment and disruption and application to observational data	
	11:50-12:10	Ngan Le	Impacts of magnetic fields and stellar feedback on star formation in Ophiuchus-A molecular cloud	
	12:10-12:40	Discussion		
Lunch Break				
Afternnon		Excursion		
Evening		Banquet		

Day 4 (Thursday- July 28, 2022)				
Section	Time (GMT+7)	Speaker	Title	Chair
Morning	9:00-9:40	Do Thi Hoai	Morpho-kinematics of circumstellar envelopes of O-rich AGB stars	Stefan Reissl
	9:40-10:00	Bao Truong	Extinction properties by circumstellar dust in the Betelgeuse envelope under the impact of radiative feedback	
	10:00-10:20	Fuda Nguyen	ExoRAT: Investigating the Effects of Radiative Torques on Dust in the Atmosphere Of Exoplanets	
	10:20-10:40	Coffee Break		
	10:40-11:20	Enrique Lopez-Rodriguez	Extragalactic magnetism using FIR polarimetry	Lam Nguyen
	11:20-12:00	Hoang Ngoc Duy	Diffuse radio emission from galaxy clusters	
	12:00-12:30	Discussion		
Lunch Break				
Afternnon	14:00-14:40	Akshaya Subbada	Magnetic field at the Galactic center from infrared polarization	Tuan Van Bui
	14:40-15:00	Lam Nguyen	Observations and simulations of super star clusters in starburst galaxies	
	15:00-15:20	Coffee Break		
	15:20-15:40	Ngo Ngoc Hai, Tuan Le Nguyen, Le Thong Quoc Tinh	Hunting Intermediate-mass Black Holes with ELT	Thiem Hoang
	15:40-16:30		Discussion & Workshop Closing	