



**Asian Network School and Workshop on Complex Condensed Matter Systems 2019**  
 National Institute of Physics, University of the Philippines Diliman, Quezon City, Philippines  
 Nov. 4 – 8, 2019

<b>Asian Network School and Workshop on Complex Condensed Matter Systems 2019 Program</b>						
<b>School</b>					<b>Workshop</b>	
	Nov. 4	Nov. 5	Nov. 6	Nov. 7	Nov. 8	
	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>	
7:30 - 8:45	Registration					
8:45 - 9:00	Opening Remarks					
9:00 - 10:00	Prof. Salvador	Prof. Leykam	Prof. Silva	Prof. Marsili	9:00 - 9:30	Prof. Confesor
10:00 - 10:30	<i>Break</i>				9:30 - 10:30	Prof. Salvador
10:30 - 11:30	Prof. Estacio	Prof. Leykam	Prof. Silva	Prof. Marsili	10:30 -- 11:00	<i>Break</i>
					11:00 -- 11:30	Prof. Flach
11:30 - 13:00	<i>Lunch</i>				11:30 -- 12:00	Prof. Lim
					12:00 -- 13:00	<i>Lunch</i>
13:00 - 14:00	Prof. Fistul	Prof. Kiselev	<i>Tour</i>	Prof. Thingna	13:00 -- 14:30	<b>Poster Session</b>
14:00 - 14:15	<i>Break</i>			<i>Break</i>		
14:15 - 15:15	Prof. Fistul	Prof. Kiselev		Prof. Thingna		
15:15 - 15:30	<i>Break</i>			<i>Break</i>		
15:30 - 16:30	Prof. Hoang	Prof. Cho		Prof. Meevasana		
16:30 - 16:45	<i>Break</i>			<i>Break</i>		
16:45 - 17:45	Prof. Hoang	Prof. Cho		Prof. Meevasana		
					17:00 -- 17:30	Prof. Samson
					17:30	Closing Remarks
18:00	<i>Van Pick-up</i>				18:00	<i>Van Pick-up</i>
19:00 - 21:00				Dinner Banquet		



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Day	Lecturer / Speaker	Institution	Lecture / Workshop Topic
Monday (Nov. 4)	Salvador, Arnel	NIP UPD	Fundamentals of Crystal Growth and Bandstructure of Bulk and Quantum Well Semiconductors
	Estacio, Elmer	NIP UPD	Ultrafast Optical Processes in Semiconductors
	Fistul, Mikhail	PCS IBS	Macroscopic Quantum Dynamics of Superconducting Qubits Network
	Hoang, Trinh Xuan	IOP VAST	Geometry and Phase Behavior of Chain Molecules
Tuesday (Nov. 5)	Leykam, Daniel	PCS IBS	Introduction to Photonic Lattices
	Kiselev, Mikhail	ICTP	Macro-, Meso-, and Nano Mechanics: Part I: Visual Wave Mechanics Part II: Putting Mechanics into the Quantum Regime
	Cho, Jaeyoon	APCTP	Emergent Locality and Its Applications In Quantum Many Body Systems
Wednesday (Nov. 6)	Silva, Alessandro	SISSA	Non-equilibrium Physics with Quantum Simulators
Thursday (Nov. 7)	Marsili, Matteo	ICTP	Statistical Mechanics of Efficient Representations
	Thingna, Juzar	PCS IBS	Part I: Introduction to Nonequilibrium Thermodynamics of Large Open Quantum Systems; Part II: Effect of Symmetries on Quantum Systems Far From Equilibrium
	Meevasana, Worawat	SUT	Experimental Condensed Matter Relating to 2D Systems
Friday (Nov. 8)	Confesor, Mark Nolan	MSU – IIT	Dynamics of Ratchet Gears in Active Matter Systems
	Salvador, Arnel	NIP UPD	MBE-Grown Semiconductor Heterostructures for Terahertz Applications
	Flach, Sergej	PCS IBS	Dynamical Glass: Ergodization Dynamics In Weakly Non-Integrable Many Body Systems
	Lim, May	NIP UPD	Data-informed Modeling Vehicular Traffic Flow
	Cuansing, Eduardo	IMSP UPLB	Time Dependent Currents in Nonadiabatic Electron Pumps and Engines
	Vakulchyk, Ihor	PCS IBS	Discrete Time Quantum Walks: An Efficient Framework for Transport Studies
	Balista, Junius	IMSP UPLB	Granular materials: An Enigmatic Soft Condensed Matter
	Hermosa, Nathaniel	NIP UPD	Some Simple Experiments in Optics To Probe the Nature of Graphene
Samson, Vallerie	NIP UPD	Probing the Structure of Materials Using Synchrotron Based Spectroscopic Techniques	

### Cooperating Institutions:

APCTP – Asia Pacific Center for Theoretical Physics (KOREA)

ICTP – The Abdus Salam International Centre for Theoretical Physics

PCS IBS – Center for Theoretical Physics of Complex Systems, Institute for Basic Science (KOREA)

NIP UPD – National Institute of Physics, University of the Philippines Diliman (PHILIPPINES)

SISSA – International School for Advanced Studies (ITALY)

IOP VAST – Institute of Physics, Vietnam Academy of Science and Technology (VIETNAM)

IMSP UPLB – Institute of Mathematical Sciences and Physics, University of the Philippines  
Los Baños (PHILIPPINES)

MSU-IIT – Mindanao State University–Iligan Institute of Technology (PHILIPPINES)

SUT – School of Physics, Suranaree University of Technology (THAILAND)