

Starting time	Monday, September 19th				
9:00	Opening				
9:05	1.1.	Shahin MD Alam	<i>Anomalous transport properties of the ferromagnetic Weyl semimetal CeAlSi</i>	EXOTIC MATERIALS RESEARCH	M. Aktas
9:15	1.2.	Jaydeb Dey	<i>Observation of helical magnetic structure in Mn₂GaC MAX phase by ⁵⁵Mn NMR study</i>		
9:25	1.3.	Arathi Das Moosarikandy	<i>Study of Spin Pumping in YIG/ Pt bilayers via Ferromagnetic Resonance- ISHE measurements.</i>		
9:35	1.4.	Piotr Baranowski	<i>Carrier separation in type II quantum dots inserted in (Zn,Mg)Te/ZnSe nanowire</i>		
9:45	Q & A 1				
9:55	Break				
10:10	2.1.	Abinash Adhikari	<i>Pressure dependent bandgap study of {CdO/MgO} SLs using diamond anvil cell</i>	ELECTRON MICROSCOPY AND SPECTROSCOPY	O. Farooq
10:20	2.2.	Anastasiia Lysak	<i>Effect of rapid thermal annealing on short period {CdO/ZnO}_m SLs grown on m-Al₂O₃</i>		
10:30	2.3.	Wiktorija Zajkowska	<i>Modified carbothermal technique of ZnO nanowires crystalization</i>		
10:40	2.4.	Dorota Janaszko	<i>Strain field and dislocation density analysis in highly mismatched core-shell CdTe/ZnTe nanowires by quantitative TEM investigations</i>		
10:50	Q & A 2				
11:00	Coffee break 1				
11:30	3.1.	Abdul Khaliq	<i>Low temperature weak anti-localization effect in GeTe-SnTe epitaxial layers</i>	SEMICONDUCTOR RESEARCH	A. Ahmed
11:40	3.2.	Mahwish Sarwar	<i>Crystal Lattice Damage and Recovery of Rare-Earth implanted Wide Bandgap Oxides</i>		
11:50	3.3.	Vasil Stasiv	<i>(Y,Gd)AlO₃ perovskite single crystals doped with Mn²⁺ ions</i>		
12:00	3.4.	Ajeesh Somakumar	<i>Fe³⁺ doped LiGaO₂ phosphor for Near-infrared applications.</i>		
12:10	3.5.	Sania Dad	<i>Hybrid Nanowires Comprising III-V Semiconductor Cores and Narrow Bandgap IV-VI Semiconductor Shells</i>		
12:20	3.6.	Syed Shabhi Haider	<i>Designing of Experimental Setup for Impact Induced Mechanoluminescence Measurements</i>		
12:30	Q & A 3				
12:40	Coffee break 2				

13:10	4.1.	Adil Rehman	<i>Temperature Dependent Sub-THz Detection in Graphene and GaN-based Transistors</i>	GaN TECHNOLOGIES	R. Islam
13:20	4.2.	Karolina Grabiańska	<i>An innovative approach to control the morphology of growing GaN crystals.</i>		
13:30	4.3.	Kacper Sierakowski	<i>Zn diffusion in GaN crystals</i>		
13:40	4.4.	Piotr Jaroszyński	<i>The role of calcium in ion implanted gallium nitride</i>		
13:50	Q & A 4				
14:00	Lunch break				
15:15	5.1.	Pradosh Kumar Sahoo	<i>Magneto-transport study on SnTe thin film</i>	THIN FILM TECHNOLOGIES	A. Khalid
15:25	5.2.	Zeinab Khosravizadeh	<i>Determination of diffusion coefficient of atmospheric elements in CdZnO thinfilms</i>		
15:35	5.3.	Amar Fakhredine	<i>Huge Dzyaloshinskii-Moriya interactions in Re/Co[n]/Pt thin films</i>		
15:45	5.4.	Sameh Altanany	<i>Berezinskii-Kosterlitz-Thouless transition in ultrathin niobium films</i>		
15:55	Q & A 5				
16:05	Break				
16:20	6.1.	Maciej Bartłomiej Kruk	<i>Stationary, dynamic and thermal properties of flattened and elongated quantum droplets</i>	DROPLETS	M. Białobrzewski
16:30	6.2.	Jakub Kopyciński	<i>Ultrawide dark solitons and droplet-soliton coexistence in a dipolar Bose gas with strong contact interactions</i>		
16:40	Q & A 6				
16:45	Break				
16:55	7.1.	Hung Nguyen Van	<i>Effect of the corona virus on protein synthesis in human ribosomes</i>	PROTEIN PHYSICS	J. Olas
17:05	7.2.	Michał Białobrzewski	<i>How fluctuations at the nanomolar scale in aqueous solutions give an unique information about hydrodynamics properties and molecular interactions of proteins involved in regulation of gene expression?</i>		
17:15	Q & A 7				
17:25	Break				
17:40	8.1.	Oskar Słowik	<i>The efficiency of universal sets of quantum gates</i>	QUANTUM COMPUTING	M. Azaelahi
17:50	8.2.	Tae-Hun Lee	<i>What is information?</i>		
18:00	8.3.	Tomasz Rybotycki	<i>Effective algorithms for classical simulation of quantum many-body systems</i>		
18:10	8.4.	Owidiusz Makuta	<i>Generation of graph states in quantum networks</i>		
18:20	Q & A 8				

Starting Time	Tuesday, September 20th					
9:00	9.1.	Natalia Fiuczek	<i>Influence of band offset in nitrides on electrochemical etching parameters</i>	ZOOM PANEL	STUDENT COUNCIL	
9:10	9.2.	Maria Szola	<i>Narrow-gap HgCdTe magneto-optical spectroscopy</i>			
9:20	9.3.	Kwasi Nyandey	<i>Classification of milk fat content categories based on speckle pattern using machine learning</i>			
9:30	9.4.	Luis Carnevale da Cunha	<i>MDPD Simulation of Liquid Thread Break-up and Formation of Droplets</i>			
9:40	9.5.	Kausik Das	<i>Magnetic Dynamical Properties and Ferromagnetic Resonance in (Ga,Mn)N Layers</i>			
9:50	9.6.	Yadhu Krishnan Edathumkandy	<i>On the device fabrication for studies of precessional magnetization switching in ferromagnetic (Ga,Mn)N using sub-nanosecond pulses</i>			
10:00	9.7.	Sushma Mishra	<i>An arbitrary Cross-Sectional Low Temperature-Cathodoluminescence-SEM-Imaging study of ALD-ZnO:N and ZnO films via wide range annealing in O₂/N₂ atm</i>			
10:10	9.8.	Juby Alphonsa Matthew	<i>The Impact of Mg and O elements on the Structural and Optical properties of PA-MBE grown Europium Doped ZnMgO Thin Films</i>			
10:20	9.9.	Jan Głowacki	<i>A novel formal approach to relational quantum physics</i>			
10:30	9.10.	Soheil Arbabi	<i>Coalescence of surfactant-laden droplets</i>			
10:40	9.11.	Russel Kajouri	<i>Durotaxis motion on brush substrates</i>			
10:50	Q & A 9					
11:10	Coffee break 1					
11:40	10.1.	Damian Włodzyński	<i>New approach to a strongly mass-imbalanced Fermi polaron in a harmonic trap</i>	QUANTUM PHYSICS	T. Rybotycki	
11:50	10.2.	Tanausu Hernandez Yanes	<i>Accelerating many-body entanglement generation by dipolar interactions in the Bose-Hubbard model</i>			
12:00	10.3.	Suhani Gupta	<i>Halo bias in modified gravity cosmologies</i>			
12:10	Q & A 10					
12:20	Coffee break 2					

12:50	11.1.	Aleksander Sanjuan Ciepielewski	<i>Transport signatures of van Hove singularities in mesoscopic twisted bilayer graphene</i>	MAGNETIC PROPERTIES RESEARCH	Amar Fakhredine
13:00	11.2.	Sarath Prem	<i>Berry-phase induced entanglement of electron spins coupled to a microwave cavity</i>		
13:10	11.3.	Tania Paul	<i>Interplay of quantum spin Hall effect and spontaneous time-reversal symmetry breaking in electron-hole bilayers: Zero-field topological superconductivity</i>		
13:20	11.4.	Pardeep Kumar Tanwar	<i>Severe violation of the Wiedemann-Franz law in quantum oscillations of NbP</i>		
13:30	Q & A 11				
13:40	Break				
13:55	12.1.	Omer Farooq	<i>Experimental Investigation of Spectral Properties of Quantum graphs and Networks</i>	OPTICAL PROPERTIES RESEARCH	J. Sławińska
14:05	12.2.	Joanna Olas	<i>Imaging the $S_0 \rightarrow S_1$ transition moments of single organic dye molecules in a crystalline matrix</i>		
14:15	12.3.	Ghulam Hussain	<i>Electronic and optical properties of InAs/InAsSb Superlattice</i>		
14:25	Q & A 12				
14:35	Lunch break				
16:00	13.1.	Ashfaq Ahmad	<i>Polarization doping – ab initio verification of the concept: charge conservation and nonlocality</i>	EMITTER AND SENSOR TECHNOLOGIES	O. Słowik
16:10	13.2.	Julia Sławińska	<i>Nitride micro-LEDs with tunnel junctions</i>		
16:20	13.3.	Muhammed Aktas	<i>P-Cladding Layer with Polarization Doping for Nitride Emitter</i>		
16:30	13.4.	Alexandr Cherniadev	<i>Vertically coupled resonators-based THz detector as a near-field sensor</i>		
16:40	Q & A 13				
16:50	Break				
17:00	Invited talk – prof. Andrzej Dragan, UW <i>TBA</i>				SC
17:45	Invited talk Q & A				
18:00	Closing				