



**IWPSD 2021**  
 Indian Institute of Technology, New Delhi, India  
 14 - 17 December, 2021



## Symposium- Semiconductor Devices for Quantum Technologies (HALL 5)

**DAY 1 (D1) (14<sup>th</sup> December 2021/Tuesday)**

9:00-11:15	Inaugural Session and Keynote Talk - Hall 1 (Common for all symposia)	
Session-1 (Morning)		
Time (IST)	Speaker	Title
11:15 – 12:00	<b>MS Ramachandra Rao</b> (IIT Madras)	QT-SKN-1: Physics and technology of two wide bandgap systems
12:00 – 12:30	<b>Kasturi Saha</b> (IIT Bombay)	QT-I-1: Quantum diamond microscope for color defect based magnetometry
12:30 – 13:00	<b>Madhu Thalakulam</b> (IISER Thiruvananthapuram)	QT-I-2: Macroscopic manifestation of microscopic backaction due to an electrical amplifier
LUNCH BREAK (13:00 – 14:00)		
Session-2 (Afternoon)		
Time (IST)	Speaker	Title
14:00 – 14:30	<b>Vidya Praveen Bhallamudi</b> (IIT Madras)	QT-I-3: Quantum defects in diamonds and their applications
14:30 – 15:00	<b>Efrén Navarro-Moratalla</b> (University of Valencia, Spain)	QT-I-4: Chromium triiodide: playing with ordered spins in flatland
15:00 – 15:30	<b>Ashiwn Tulapurkar</b> (IIT Bombay)	QT-I-5: Control of spin-qubits using spin-torque like effects
15:30 – 15:45	<b>Shouvik Datta</b> (IISER, Pune)	QT-O-1: Tailoring Quantum Oscillations of Excitonic Schrodinger's Cats as Qubits
15:45 – 16:00	<b>Kacho Imtiyaz Ali Khan</b> (IIT Delhi)	QT-O-2: Thin Films Growth of Polycrystalline Ferromagnetic Kagome Metal Fe <sub>3</sub> Sn <sub>2</sub> using Pt buffer layer
16:00 – 16:15	<b>Tea Break</b>	

16:15 – 17:15	<b>Industry Session-Hall 1 (Common for all symposia)</b>
17:15 – 18:45	<b>Plenary Session-Hall 1 (Common for all symposia)</b>
<b>END OF DAY 1</b>	

### **DAY 2 (D2) (15<sup>th</sup> December 2021/Wednesday)**

<b>9:30-11:15</b>	<b>Plenary Session-Hall 1 (Common for all symposia)</b>	
<b>Session-1 (Morning)</b>		
<b>Time</b>	<b>Speaker</b>	<b>Title</b>
11:15 – 12:00	<b>Anjan Barman</b> (SNBNCBS, Kolkata)	QT-SKN-2: Ultrafast Spin Dynamics in Ferromagnetic Thin Films and Heterostructures: Towards Ultrahigh Speed Spintronics
12:00 – 12:30	<b>Qiming Shao</b> (HKUST, Hong Kong)	QT-I-6: Topological spintronics with topological insulators and skyrmions
12:30 – 13:00	<b>Chi Feng Pai</b> (NTU, Taiwan)	QT-I-7: Probing Spin-Orbit Torque via Unidirectional Magnetoresistance
<b>LUNCH BREAK (13:00 – 14:00)</b>		

### **DAY-4 (D4) (17<sup>th</sup> December/Friday)**

<b>9:30-11:15</b>	<b>Plenary Session-Hall 1 (Common for all symposia)</b>	
<b>Session-1 (Morning)</b>		
<b>Time</b>	<b>Speaker</b>	<b>Title</b>
11:15 – 11:45	<b>P. S. Anil Kumar</b> (IISc Bangalore)	QT-I-8: Fermi level tuning in Topological Insulators
11:45 – 12:15	<b>Subhankar Bedanta</b> (NISER, Bhubaneswar)	QT-I-9: Spintronics with organic semiconductors, topological insulators and chalcogenides
12:15 – 12:45	<b>Bhaskaran Muralidharan</b> (IIT Bombay)	QT-I-10: Quantum device modeling of topological superconductor hybrid systems
<b>LUNCH BREAK (13:00 – 14:00)</b>		