

Indo-Japan Workshop on Interface Phenomena for Spintronics (IJW-IPS 2022)

Program Day 1 (08.03.2022)

(Program starts at 10.00 AM IST)

Zoom Link

<https://us06web.zoom.us/j/83943470117?pwd=TFRVQ3B0TWkEcnVnVINHNERoMEJXZz09>

Meeting ID: 839 4347 0117; Passcode: 551236

10.00-10.30 AM	<u>Inauguration</u> <ul style="list-style-type: none">➤ Welcome address by Dr. Subhankar Bedanta, Convener, IJW-IPS 2022, NISER, India.➤ Address by Prof. Sudhakar Panda, Director, NISER, Bhubaneswar.➤ Address by Prof. Bedangadas Mohanty, Dean of Faculty Affairs, NISER, Bhubaneswar.➤ Address by Prof. Takeshi Seki, Co-convener, IJW-IPS 2022, Tohoku University, Japan.➤ Address by Prof. Koki Takanashi, Co-convener, IJW-IPS 2022, Tohoku University, Japan➤ Vote of thanks by Dr. Braj Bhusan Singh, Co-convener, IJW-IPS 2022, NISER, India.
Session I	
10.30-11.00 AM	Prof. Anjan Barman , SNBNCBS, India. <i>Ultrafast Spin Dynamics and Spin Waves in 2D Material/Ferromagnet Heterostructures</i>
11.00-11.30 AM	Prof. Takeshi Seki , IMR, Japan. <i>Large antisymmetric interlayer exchange coupling.</i>
11.30-12.00 AM	Prof. Ashwin Tulapurkar , IIT Bombay, India. <i>Inverse of voltage-controlled magnetic anisotropy (VCMA) effect and investigation in graphene/FM structures</i>
12.00-12.30 AM	Prof. Ruma Mandal , Tohoku University, Japan <i>Magnetization Dynamics Study of High PMA Ultrathin Magnetic Heterostructures</i>
12.30-1.30 PM	LUNCH BREAK
Session II	
01.30-02.00 PM	Prof. Ken-ichi Uchida , NIMS, Japan. <i>Future directions in spin caloritronics</i>
02.00-02.30 PM	Dr. Braj Bhusan Singh , NISER, India. <i>Spin to charge conversion in polycrystalline topological insulator</i>
02.30-03.00 PM	Prof. P. S Anil Kumar , IISc, India. <i>Asymmetric magnetic domain wall motion under lateral and normal space inversion asymmetry with interfacial Dzyaloshinskii-Moriya interaction</i>
03.00-03.30 PM	Dr. Surendra Singh , BARC, India. <i>Investigation of emerging phenomena at the interface of heterostructures using polarized neutron reflectivity</i>

Program Day 2 (09.03.2022)

Zoom Link

<https://us06web.zoom.us/j/86317654121?pwd=SFhRNXFHZ29Fb1hvNnRZM2xSL3lyUT09>

Meeting ID: 863 1765 4121; Passcode: 263750

Session III	
10.00-10.30 AM	Dr. Subhankar Bedanta , NISER, India. <i>Exciting physics at the interface of organic semiconductor/ferromagnet interfaces</i>
10.30-11.00 AM	Prof. Keita Ito , Tohoku University. <i>Fabricating $L1_0$-ordered FeNi films by denitriding FeNiN films</i>
11.00-11.30 AM	Dr. Anjana Dogra , NPL, India. <i>2DEG characteristic difference between stoichiometric LaScO₃/STO and non-stoichiometric Ca_xTa_yO_{3+δ}/STO</i>
11.30-12.00 AM	Prof. Kohei Fujiwara , Tohoku University, Japan. <i>Topological Hall effect in multilayers of kagome-lattice ferromagnet Fe₃Sn and Pt</i>
12.00-12.30 AM	Prof. Bhaskaran Muralidharan , IIT Bombay, India. <i>New directions in 2D quantum materials and interfaces with Rashba interaction</i>
12.30-1.30 PM	LUNCH BREAK
Session IV	
01.30-02.00 PM	Prof. Takahiro Moriyama , Kyoto University, Japan. <i>Spin dynamics and transport in antiferromagnets</i>
02.00-02.30 PM	Dr. Sujit Das , IISc, Bangalore, India. <i>Polar topology: A new era of ferroelectrics</i>
02.30-04.30 PM	POSTER SESSION https://drive.google.com/file/d/1W6LmiOc0G7tIxS5TFyAEOyPkU4UP0mKG/view?usp=sharing

Program Day 3 (10.03.2022)

Zoom Link

<https://us06web.zoom.us/j/81941398966?pwd=T29xdC9RSW9zREVZzZWNGRDRVHhKZz09>

Meeting ID: 819 4139 8966; Passcode: 886950

Session V	
10.00-10.30 AM	Prof. Yuya Sakuraba , NIMS, Japan. <i>Development of high performance giant magnetoresistive device by interface control</i>
10.30-11.00 AM	Prof. Pranaba Kishor Muduli , IIT Delhi, India. <i>Interfacial origin of unconventional spin-orbit torques in Py/IrMn_3</i>
11.00-11.30 AM	Prof. Takahide Kubota , Tohoku University, Japan. <i>Manganese-based Materials for Spintronics Applications</i>
11.30-12.00 AM	Dr. Suvankar Chakraverty , INST, India. <i>KTaO_3 – The New Kid on the Spintronics Block</i>
12.00-12.30 AM	Prof. Debakanta Samal , IOP, India. <i>Emergent quantum transport due to quenched magnetic impurity scattering by antiferromagnetic proximity in $\text{SrCuO}_2/\text{SrIrO}_3$</i>
12.30-1.30 PM	LUNCH BREAK
Session VI	
01.30-02.00 PM	Prof. Masaki Mizuguchi , Nagoya University, Japan. <i>Electric field effect of Fe/MgO interface in magnetic tunnel junctions</i>
02.00-02.30 PM	Dr. Prasanta Muduli , IIT Madras, India. <i>Nanoscale nonlocal devices to study quantum materials</i>
02.30-03.00 PM	Dr. Takumi Yamazaki , Tohoku University, Japan. <i>Optical thermometry for investigating spin-caloritronic phenomena</i>
03.00-03.30 PM	Concluding session