

<p style="text-align: center;"><b>EMN MEETING</b> <b>CCGW &amp; CCSD</b></p> <p style="text-align: center;"><b>Tuesday, May 23</b> <b>Amethyst Room</b></p>		
9:00-9:10AM	Opening	
<b>Session: Gravitational Wave I    Session Chair: Gregory Comer</b>		
9:10-9:35AM	A01: Physical metric, gravitational waves and dark energy	<b>Yukio Tomozawa</b> University of Michigan, USA
9:35-10:00AM	A02: J-GEM: Optical and Near-Infrared Follow-Up Observations for GW Sources	<b>Tomoki Morokuma</b> University of Tokyo, Japan
10:00-10:25AM	A03: Perspectives on Spherical Gravitational Wave Detectors	<b>Carlos Frajuca</b> Sao Paulo Federal Institute of Education, Science and Technology, Brazil
10:25-10:40AM	Session Break	
<b>Session: Spin Dynamics I    Session Chair: Hongwu Liu</b>		
10:40-11:05AM	A04: Various magnetic behaviors at the interface between heavy metals and ferromagnets	<b>June Seo Kim</b> Daegu-Gyeongbuk Institute of Science and Technology (DGIST), Korea
11:05-11:30AM	A05: Spin-charge conversion on 2D topological materials	<b>Yuki Shiomi</b> Tohoku University, Japan
11:30-11:55AM	A06: Dynamics of fractional excitations in quantum spin liquids	<b>Masafumi Udagawa</b> Gakushuin University, Japan
11:55AM-14:30PM	Lunch Break	
<b>Session: Gravitational Wave II    Session Chair: Yukio Tomozawa</b>		
14:30-14:55PM	A07: What can quasinormal modes tell us about the microscopic structure of spacetime?	<b>Ramin G. Daghigh</b> Metropolitan State University, USA
14:55-15:20PM	A08: Gravitational Waves Reveal Quantum Mechanical Properties of Spacetime	<b>John Macken</b> Macken Instruments Inc., USA

15:20-15:45PM	A09: Instability of hairy black holes in shift-symmetric Horndeski theories	<b>Hiromu Ogawa</b> Rikkyo University, Japan
15:45-16:00PM	Session Break	
<b>Session: Spin Dynamics II    Session Chair: Tomohiro Koyama</b>		
16:00-16:25PM	A10: Spin current as a probe to detect spin dynamics	<b>Yasuhiro Niimi</b> Osaka University, Japan
16:25-16:50PM	A11: Spin-vibration interaction in a nanomechanical spin-valve	<b>Gianluca Rastelli</b> University of Konstanz, German
16:50-17:15PM	A12: Spin-charge conversion at surface state with spin splitting	<b>Kouta Kondou</b> RIKEN, Japan

**EMN MEETING  
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**Wednesday May 24  
Amethyst Room**

**Session: Spin Dynamics III    Session Chair: Yasuhiro Niimi**

9:00-9:25AM	A13: Dynamics nuclear polarization established by chiral edge modes	<b>Hongwu Liu</b> Jilin University, China
9:25-9:50AM	A14: Manipulation of magnetic domain and domain wall using electrical current	<b>Tomohiro Koyama</b> University of Tokyo, Japan
9:50-10:05AM	Session Break	

**Session: Surface and Interface I    Session Chair: Guoxin Xie**

10:05-10:30AM	A15: Control of charge transport across interfaces for low-power bistable electrochemical devices	<b>Eunyoung Kim</b> Yonsei University, Korea
10:30-10:55AM	A16: Wetting Behavior of Water and Oil on the Solid Surfaces with Micropillars and Hybrid-Nanocoating	<b>Young-Rae Cho</b> Pusan National University, Korea
10:55-11:20AM	A17: Cross-sectional scanning tunneling microscopy and -spectroscopy of antiphase boundaries in GaP layers grown on Si(001)	<b>Andrea Lenz</b> Institute of Solid State Physics, Germany
11:20-11:45AM	A18: Fabrication and application of Si nanocrystals and nanopowder for energy devices	<b>Hikaru Kobayashi</b> Osaka University, Japan
11:45AM-14:00PM	Lunch Break	

**Session: Gravitational Wave III    Session Chair: Ramin G. Daghigh**

14:00-14:25PM	A19: An Action Principle for Dissipative General Relativistic Multi-fluids and Plasmas	<b>Gregory Comer</b> Saint Louis University, USA
14:25-14:50PM	A20: Exploring fundamental physics with gravitational waves	<b>Archil Kobakhidze</b> The University of Sydney, Australia
14:50-15:15PM	A21: Binary black hole remnants of First stars for the gravitational wave source	<b>Tomoya Kinugawa</b> Kyoto University, Japan

15:15-15:40PM	A22: A fundamental plane for GRB afterglows	<b>Maria Dainotti</b> Jagellonian University, Poland
15:40-15:55PM	Session Break	
<b>Session: Surface and Interface II    Session Chair: Eunkyong Kim</b>		
15:55-16:20PM	A23: An ab initio approach to surface photochemistry	<b>Thorsten Kluener</b> Carl von Ossietzky Universität Oldenburg, Germany
16:20-16:45PM	A24: Removal and recovery of gold(III) by biosorption and biomineralization using <i>Pseudomonas</i> sp.	<b>Takehiko Tsuruta</b> Hachinohe Institute of Technology, Japan
16:45-17:10PM	A25: Phonon dynamics of atomically thin MoS <sub>2</sub> layers	<b>Hyunmin Kim</b> DGIST, Korea
17:10-17:35PM	A26: Stabilization of Water-in-Supercritical Carbon Dioxide Nanoclusters by Headgroup-Free Compounds	<b>Masanobu Sagisaka</b> Hirosaki University, Japan

**EMN MEETING  
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**Thursday May 25  
Amethyst Room**

**Session: Surface and Interface III    Session Chair: Thorsten Kluener**

9:00-9:25AM	A27: Breaking through the Tri-Gate channels width limited of normally-off GaN HEMT by modulation channel via-hole-length	<b>Ray-Ming Lin</b> Chang Gung University, Taiwan
9:25-9:50AM	A28: Supramolecular surface photochemistry of molecular self-assembly on 2D nanosurfaces	<b>Yohei Ishida</b> Hokkaido University, Japan
9:50-10:15AM	A29: Tunable Lubricity of Graphite Intercalation Compounds	<b>Guoxin Xie</b> Tsinghua University, China
10:15-10:30AM	Session Break	
<b>Session: Gravitational Wave IV    Session Chair: Archil Kobakhidze</b>		
10:30-10:55AM	A30: Towards understanding of the LIGO GW events and they peculiarities	<b>Hao Liu</b> Niels Bohr Institute, Denmark/ Institute of High Energy Physics, CAS, China
10:55-11:20AM	A31: The merger of GW150914 in gas-rich environment	<b>Hiromichi Tagawa</b> National Astronomical Observatory of Japan, Japan
11:20-11:45AM	A32: The Necessary Existence of Gravitational Waves and the Repulsive Gravitation	<b>C. Y. Lo</b> Applied and Pure Research Institute, USA
11:45AM-12:10PM	A33: Macronovae: Electromagnetic Counterparts to Neutron Star Mergers	<b>Oleg Korobkin</b> Los Alamos National Laboratory, USA