

Monday May 4 Room A		
7:30-8:30 AM	Breakfast	
Session: Keynote Speakers Chair: Jamal Berakdar		
9:00-9:30 AM	A01: Smart Interfacial Materials from Super-Wettability to Binary Cooperative Complementary Systems	Lei Jiang Institute of Chemistry, CAS, China
9:30-10:00 AM	A02: Recent Advances on Nano-materials and Technologies for Advanced Electronic, Photonic and MEMS Applications	C.P. Wong The Chinese University of Hong Kong, Hong Kong
10:00-10:30 AM	A03: Graphene Oxides and Their Hybrids for CO ₂ Conversion and Solar Fuel	Li-Chyong Chen National Taiwan University, Taiwan
10:30-10:45 AM	Session Break	
Session: Spintronics and Photonics I Chair: Lei Jiang		
10:45-11:10 AM	A04: Ultrafast Spin Dynamics with Optical Vertices	Jamal Berakdar Martin-Luther Universität Halle-Wittenberg, Germany
11:10-11:35 AM	A05: Anatomy of Spin-orbit Phenomena at Transition Metal Interfaces	Mairbek Chshiev Université Joseph Fourier, France
11:35-12:00 PM	A06: Topological Spintronics and Photonics	Xiao Hu National Institute for Materials Science, Japan
12:00-13:30 PM	Lunch Break	

Monday May 4**Room B****Session: Thermoelectric Materials I Chair: Philippe Papet**

14:00-14:25 PM	B01: Theoretical and Experimental Study on the Thermoelectric Properties of Cu-based Materials	Xun Shi Shanghai Institute of Ceramics, CAS, China
14:25 -14:50 PM	B02: The Roles of Intrinsic Point Defects in Typical Thermoelectric Materials	Tiejun Zhu Zhejiang University, China
14:50 -15:15 PM	B03: Nanostructured Bulk Silicon as a Non-toxic, Cost-effective, and High-efficiency Thermoelectric Material	Ken Kurosaki Osaka University, Japan
15:15-15:30 PM	Session Break	
Session: Frontiers of Nanomaterials and Devices I Chair: Xun Shi		
15:30-15:55 PM	B04: All-optical OFDM Signal Multiplexer and Demultiplexer Using Optical Waveguide Technology	Koichi Takiguchi Ritsumeikan University, Japan
15:55-16:20 PM	B05: Entangled and Nonlocal Biphoton Generation From A Semiconductor Quantum Dot	Hidekazu Kumano Hokkaido University, Japan
16:20-16:45 PM	B06: Silicon Photonics Based Optical Devices and Circuits	Graham T Reed University of Southampton, UK
16:45-17:10 PM	B07: To be determined	TBA
17:30 PM	Dinner Social	

Monday May 4**Room C****Session: Nanotechnology in Materials Science I Chair: Arunas Jagminas**

14:00-14:25 PM	C01: Transport Thermal Properties of Polyester/Magnetized Carbon Nanofibers (mCNF) Composites	Alberto Oleaga Universidad del Pais Vasco, Spain
14:25 -14:50 PM	C02: d^0 Ferromagnetism in Metal Oxides: Theory vs. Experiments	Masayoshi Seike Osaka University, Japan
14:50 -15:15 PM	C03: Printed Flexible Sensor Sheet	Kuniharu Takei Osaka Prefecture University, Japan
15:15-15:30 PM	Session Break	
Session: Engineering and Nanotechnology for Solar, Thermal and Other Energy Applications I		
Chair: Alberto Oleaga		
15:30-15:55 PM	C04: Design, Study and Application of 2-D MoS ₂ Architectures in Hydrogen Fuel and Solar Cells	Arunas Jagminas The Centre for Physical Sciences and Technology, Lithuania
15:55-16:20 PM	C05: Microstructures and Electrochemical Properties of Si-SiO _x Nanostructures Synthesized by Atmospheric Microwave Plasma	Bo-yun Jang Korea Institute of Energy Research, Korea
16:20-16:45 PM	C06: Colored and Colorful Solar Selective Absorbers Based on Multilayered Structure	Shao-Wei Wang Shanghai Institute of Technical Physics, CAS, China
16:45-17:10 PM	C07: Nanostructured Electron Transport Layer for Highly Efficient Perovskite Solar Cells	Hyun Suk Jung Sungkyunkwan University, Korea
17:30 PM	Dinner Social	

Monday May 4**Room D****Session: Magnetic and Superconductor Materials I Chair: Eric Suraud**

14:00-14:25 PM	D01: Novel Magnetic Materials in Ordered Perovskite-structure Oxides	Yuichi Shimakawa Kyoto University, Japan
14:25 -14:50 PM	D02: Synthesis of Magnetic Anisotropic Materials without Noble-metal	Masaki Mizuguchi Tohoku University, Japan
14:50 -15:15 PM	D03: Dendritic Flux Instabilities in YBCO Films Exposed to an Ultra-fast Field Ramp	Yosi Yeshurun Bar-Ilan University, Israel
15:15-15:30 PM	Session Break	
Session: Advanced Nanomaterials and Devices in Nanomedicine and Nanobiotechnology I		
Chair: Sakon Rahong		
15:30-15:55 PM	D04: Dynamics of Irradiation: from Molecules to Nano-objects and from Material Science to Biology	Eric Suraud Université Paul Sabatier, France
15:55-16:20 PM	D05: Molecular Chimeric Materials Showing Intrinsic Targetability to Cancer Cells	Il Kim Pusan National University, Korea
16:20-16:45 PM	D06: Nanocomposite Bioadhesives Towards Wetted Soft Tissues	Terry W.J. Steele Nanyang Technological University, Singapore
17:30 PM	Dinner Social	

Tuesday May 5 Room B		
7:20-8:20 AM	Breakfast	
Session: Nanotechnology in Materials Science II Chair: Hiroaki Suzuki		
8:20-8:45 AM	B08: Sub-Ångström Resolution Electron Diffractive Imaging of Oxygen Atoms in Nanocrystals	Peng Wang Nanjing University, China
8:45-9:10 AM	B09: Nanostructures Made from Silicone: Synthesis and Applications	Stefan Seeger University of Zurich, Switzerland
9:10-9:35 AM	B10: Catalytic Applications of Au-based Nanoparticles	Nikolaos Dimitratos Cardiff University, UK
9:35-10:00 AM	B11: Nanostructured Materials for Energy Storage and Transfer Applications	Hideyuki Nakanishi Kyoto Institute of Technology, Japan
10:00-10:20 AM	Session Break	
Session: General I Chair: Peng Wang		
10:20 -10:45 AM	B12: Microdevices for Monitoring of the Activity of Animal and Microbial Cells	Hiroaki Suzuki University of Tsukuba, Japan
10:45-11:10 AM	B13: Preferential Localization of Inorganic Salt in Multi Phases Polymer System and Its Effect on the Conductivity Performance	Tan Winie Universiti Teknologi MARA, Malaysia
11:10-11:35 AM	B14: New Paradigm for Metallic Screening to a Point Charge: Sharp Transition from Charge Resonance to Kondo-like Spin-singlet Resonance State	Yasutami Takada University of Tokyo, Japan
11:35-12:00 PM	B15: Shingled Magnetic Recording Combined with Microwave-assisted Magnetization Reversal for Granular Exchange-coupled Composite Media	Terumitsu Tanaka Kyushu University, Japan
12:00-13:30 PM	Lunch Break	
Session: Thermoelectric Materials II Chair: Tseung-Yuen Tseng		

13:30 -13:55 PM	B16: The Fabrication of Flexible Bismuth Telluride Based Film Device Used for Generators	Yuan Deng Beihang University, China
13:55 -14:20 PM	B17: Nowotny Chimney-ladder Higher Manganese Silicides as Potential Thermoelectric Compounds	Yuzuru Miyazaki Tohoku University, Japan
14:20 -14:45 PM	B18: Broad Search of Better Thermoelectric Oxides and Nitrides for High-Temperature Energy Harvesting	Qing Hao The University of Arizona, USA
14:45-15:45 PM	Poster Session	
Session: Frontiers of Nanomaterials and Devices II Chair: Yuan Deng		
15:45-16:10 PM	B19: Co ₃ O ₄ /Carbon Nanotube Nanocomposite Supercapacitor Electrodes	Tseung-Yuen Tseng National Chiao Tung University, Taiwan
16:10-16:35 PM	B20: Light Emission in Quantum Dots and Dyes Doped Polymer Nanofibers	Baojun Li Sun Yat-Sen University, China
16:35-17:00 PM	B21: Carbon Supported Nanobiohybrid Catalysts: Synthesis and Application Prospects in Hybrid Catalysis	Md. Eaqub Ali University of Malaya, Malaysia
17:30 PM	Dinner Social	

Tuesday May 5 Room C		
7:20-8:20 AM	Breakfast	
Session: Spintronics and Photonics II Chair: Shengfu Yang		
8:20-8:45 AM	C08: Excellent Material for Thermal Spin Injection and Its Application	Takashi Kimura Kyushu University, Japan
8:45-9:10 AM	C09: Optical Manipulation of Spins: from Fundamentals to Nanoscale All-optical Switching	Theo Rasing Radboud University Nijmegen, Netherlands
9:10-9:35 AM	C10: Electron Correlation and Dynamics in Laser Induced Transient Current in Quasi-one-dimensional Nanostructure	Tokuei Sako Nihon University, Japan
9:35-10:00 AM	C11: Spin-Pump-Induced Spin Transport in p-Type Si	Eiji Shikoh Osaka City University, Japan
10:00-10:20 AM	Session Break	
Session: General II Chair: Theo Rasing		
10:20 -10:45 AM	C12: Phononic Bandgaps Peculiar to Solid-fluid Superlattices	Seiji Mizuno Hokkaido University, Japan
10:45-11:10 AM	C13: Engineering 2D Porous Organic Nanoarchitectures Taking Advantage of Star-shaped Molecule Self-assembly	Fabien Silly CEA Saclay, France
11:10-11:35 AM	C14: Fabrication of Novel Magnetic Nanomaterials in Superfluid Helium Droplets	Shengfu Yang University of Leicester, UK
12:00-13:30 PM	Lunch Break	
Session: Spintronics and Photonics III Chair: Amanda Ellis		
13:30 -13:55 PM	C15: Propagation, Manipulation and Detection of Spin Waves for Magnonic Applications	Thomas Sebastian Helmholtz-Zentrum Dresden-Rossendorf, Germany
13:55 -14:20 PM	C16: Dynamics of Magnetic Skyrmions in Chiral Magnets	Junichi Iwasaki University of Tokyo, Japan
Session: Graphene and Carbon-based Nanomaterials I Chair: Thomas Sebastian		

14:20 -14:45 PM	C17: Surface Modification of Graphene and Carbon Nanotubes for Water Treatment Applications	Amanda Ellis Flinders University, Australia
14:45-15:45 PM	Poster Session	
15:45-16:10 PM	C18: Inducing Magnetism in Graphene via Proximity Effects and Vacancies	Hongxin Yang SPINTEC, CEA, France
16:10-16:35 PM	C19: Interface Properties of Graphene-based Heterostructures for Spintronic Applications	Seiji Sakai Japan Atomic Energy Agency, Japan
16:35-17:00 PM	C20: Doping and Adsorption of Carbon-based Nanomaterials	Yoshitaka Fujimoto Tokyo Institute of Technology, Japan
17:30 PM	Dinner Social	

Tuesday May 5 Room D		
7:20-8:20 AM	Breakfast	
Session: Thermoelectric Materials III Chair: Jun Ni		
8:20-8:45 AM	D07: Optimization for Thermal Conductivity of Nanostructured Thermoelectric Materials with the Local Angle between Heat Fluxes	Guihua Tang Xi'an Jiaotong University, China
8:45-9:10 AM	D08: Crystal Structure and Thermoelectric Properties of Ge-Sb-Te Homologous Compounds	Atsuko Kosuga Osaka Prefecture University, Japan
9:10-9:35 AM	D09: CoSi Material, Some Attempts for Enhancing the Thermoelectric Properties	Philippe Papet Université Montpellier II, France
9:35-10:00 AM	D10: Half Heusler Alloys as High ZT Thermoelectric Materials	Joseph Poon University of Virginia, USA
10:00-10:20 AM	Session Break	
Session: Frontiers of Nanomaterials and Devices III Chair: Guihua Tang		
10:20 -10:45 AM	D11: Effects of Doping on Electronic Properties and Magnetoelectric Response of Silicone	Jun Ni Tsinghua University, China
10:45-11:10 AM	D12: Nitride-based Quantum Dot for Single Photon Emitter Operating at Room temperature	Yasuhiko Arakawa University of Tokyo, Japan
11:10-11:35 AM	D13: Recent Progress in Devices and Optical Signal Processing Based on Two-Dimensional Materials	Jian Wang Huazhong University of Science and Technology, China
11:35-12:00 AM	D14: The Construction of Hybrids Surface Enhanced Raman Scattering (SERS) Chip and Its Application in Explosives Detection	Xuan He China Academy of Engineering Physics, China
12:00-13:30 PM	Lunch Break	
Session: Advanced Nanomaterials and Devices in Nanomedicine and Nanobiotechnology II Chair: Masaya Fujioka		

13:30 -13:55 PM	D15: Porous Titanium (Ti)-based Nanocomposites for Load-bearing Bioimplants	Asit Kumar Gain The University of New South Wales, Australia
13:55 -14:20 PM	D16: Biomolecule Analysis Based on Rigid Network Nanowire Structure	Sakon Rahong Nagoya University, Japan
14:20 -14:45 PM	D17: Label-free Real-time Quantitative Monitoring of Human Blood Proteins by Regenerative Fiber-optical SPR Devices	Heongkyu Ju Gachon University, Korea
14:45-15:45 PM	Poster Session	
Session: Magnetic and Superconductor Materials II Chair: Asit Kumar Gain		
15:45-16:10 PM	D18: Crystal Growth of SmFeAsO _{1-x} F _x with a High-fluorine Concentration	Masaya Fujioka Hokkaido University, Japan
16:10-16:35 PM	D19: Front and Localised States in Magnetic Systems Far from Equilibrium	David Laroze University of Glasgow, UK
17:30 PM	Dinner Social	

Wednesday May 6		
Room B		
7:20-8:20 AM	Breakfast	
Session: New Photovoltaic Materials, Devices and Technologies Chair: Jun-ichi Kadokawa		
8:20-8:45 AM	B22: Optical Properties of Low-Dislocation-Density GaN Films Fabricated by Nano-channel Facet-Initiated Epitaxial Lateral Overgrowth	Atsushi A. Yamaguchi Kanazawa Institute of Technology, Japan
8:45-9:10 AM	B23: Polymer Solar Cells with Graphene Derivatives as Interface Materials	Jian Zhang Guilin University of Electronic technology, China
9:10-9:35 AM	B24: Charge Transport in Organic Solar Cells	Ling Li Institute of Microelectronics, CAS, China
9:35-10:00 AM	B25: Atomic Layer Deposited Titanium Dioxide for Integrated Optics Devices	Matthieu Roussey University of Eastern Finland, Finland
10:00-10:20 AM	Session Break	
Session: General III Chair: Jian Zhang		
10:20 -10:45 AM	B26: Enzymatic Synthesis of Functional Polysaccharide Materials by Phosphorylase Catalysis	Jun-ichi Kadokawa Kagoshima University, Japan
10:45-11:10 AM	B27: Synthesis of Renewable Thermoplastics from Vegetables-based Building-blocks	Etienne Grau Universit é de Bordeaux, France
11:10-11:35 AM	B28: Study of Sturcture and Electronic Properties of Twisted Bilayer Graphene	Wei Yan Beijing Normal University, china
11:35-12:00 PM	B29: The Study of Structure and Electronic Properties of Two Kinds of Two Dimensional Systems on Graphite(Graphene) and Boron Nitride Substrates	Rui Xu Beijing Normal University, china
12:00-13:30 PM	Lunch Break	
Session: Thermoelectric Materials IV Chair: Se-Young Jeong		

14:00 -14:25 PM	B30: The Increasing Role of Polymers in Thermoelectricity	Andres Cantarero University of Valencia, Spain
14:25 -14:50 PM	B31: Superior Thermoelectric Performance in a PbTe-PbS Pseudo-binary	Jiaqing He South University of Science Technology of China, China
14:50 -15:15 PM	B32: Enhanced Thermoelectric Properties of Earth-abundant Copper Sulfides via Composition Engineering	Kuei-Hsien Chen National Taiwan University, Taiwan
15:15-15:45 PM	Session Break	
Session: Frontiers of Nanomaterials and Devices IV Chair: Andres Cantarero		
15:45-16:10 PM	B33: Fabrication of high-quality single-crystal Cu thin films and Cu Mesh using radio-frequency sputtering for Flexible Transparent Conductive Electrodes	Se-Young Jeong Pusan National University, Korea
16:10-16:35 PM	B34: Effect of Al Concentration on Structural and Electrical Properties of Al-doped ZnO Thin Films Prepared by Magnetron Co-Sputtering Technique	Kittipong Tantisantisom National Nanotechnology Center, Thailand
16:35-17:00 PM	B35: Graphene-fiber-integrated Devices	Fei Xu Nanjing University, China
17:30PM	Dinner Social	

Wednesday May 6 Room C		
7:20-8:20 AM	Breakfast	
Session: Spintronics and Photonics IV Chair: My Ali El Khakani		
8:20-8:45 AM	C21: Unique Electromagnetic Response of Quantum metamaterial Based on Circuit QED	Hidehiro Asai National Institute of Advanced Science and Technology, Japan
8:45-9:10 AM	C22: Band Anticrossing and Controlling the Spin Hall Current in a Noncentrosymmetric Multiorbital System	Naoya Arakawa RIKEN, Japan
9:10-9:35 AM	C23: Spin Current in Various Non-equilibrium Systems	Eiji Saitoh Tohoku University, Japan
9:35-10:00 AM	C24: Dynamical Generation of Spin Current	Kazuya Ando Keio University, Japan
10:00-10:20 AM	Session Break	
Session: Frontiers of Nanomaterials and Devices V Chair: Hidehiro Asai		
10:20 -10:45 AM	C25: High Performance Phototransistor based on the 2D Semiconductor with Ferroelectric Gate	Jianlu Wang Shanghai Institute of Technical Physics, CAS, China
10:45-11:10 AM	C26: The Design, Synthesis of 2D MOFs and Its Photoluminescence and Photocatalytic Properties Application	Hongzhen Li China Academy of Engineering Physics, China
11:10-11:35 AM	C27: Operando Analysis of Field-Effect of Graphene Transistors	Hirokazu Fukidome Tohoku University, Japan
11:35-12:00 PM	C28: Photoconductive and Photovoltaic Properties of Pulsed Laser Deposition Synthesized Single-wall-carbon-nanotube/PbS-quantum-dots Nanohybrids	My Ali El Khakani University of Quebec, Canada
12:00-13:30 PM	Lunch Break	
Session: Nanotechnology in Materials Science III Chair: Chi-Kuang Sun		

13:35 -14:00 PM	C29: Self-assembled Nanocomposite Materials: Permanent Magnets and All-solid-state Lithium Battery	Hiroaki Wakayama Toyota Central R & D Labs., Inc., Japan
14:00 -14:25 PM	C30: Quantum Transport Calculations for Nanosystems	Nobuhiko Kobayashi University of Tsukuba, Japan
14:25 -14:50 PM	C31: Organic and Colloidal Quantum Dot based Optoelectronic Devices: Photovoltaic Cell and Light Emitting Diode	Do Kyung Hwang Korea Institute of Science and Technology, Korea
14:50 -15:15 PM	C32: Fluorescent Nanocomposite Materials via Confinement of Organic Dyes in Single-wall Carbon Nanotubes	Masayoshi Tange National Institute of Advanced Industrial Science and Technology, Japan
15:15-15:45 PM	Session Break	
Session: Engineering and Nanotechnology for Solar, Thermal and Other Energy Applications II Chair: Hiroaki Wakayama		
15:45-16:10 PM	C33: Imaging Interfacial Water and Water Splitting by Using Advanced Nano-Technologies	Chi-Kuang Sun National Taiwan University, Taiwan
16:10-16:35 PM	C34: Graphene Transparent Electrode for Thin-Film Solar Cells Application	Ryousuke Ishikawa Niigata University, Japan
16:35-17:00 PM	C35: The Thermal and Structural Behavior of Li-rich Cathode Materials Investigated by Synchrotron-based X-ray Techniques	Won-Sub Yoon Sungkyunkwan University, Korea
17:30 PM	Dinner Social	

Wednesday May 6		
Room D		
7:20-8:20 AM	Breakfast	
Session: Graphene and Carbon-based Nanomaterials II Chair: Sang Joon Lee		
8:20-8:45 AM	D20: Fabrication of Graphene Nanocomposites: Energy and Sensor Applications	Yuvaraj Haldorai Dongguk University, Korea
8:45-9:10 AM	D21: Vertically Aligned Carbon Nanotube Directly Grown on Different Metal Alloy Substrates for High Performance Supercapacitor Electrode	Mohd Asyadi Azam bin Mohd Abid Universiti Teknikal Malaysia Melaka, Malaysia
9:10-9:35 AM	D22: Nanostructured Carbon Materials: Luminescent Bulbs	Kamal K. Kar Indian Institute of Technology Kanpur, India
9:35-10:00 AM	D23: 3D printing of Reduced Graphene Oxide Nanowires	Seungkwon Seol Korea Electrotechnology Research Institute, Korea
10:00-10:20 AM	Session Break	
Session: Advanced Nanomaterials and Devices in Nanomedicine and Nanobiotechnology III Chair: Yuvaraj Haldorai		
10:20 -10:45 AM	D24: Gold Nanoparticles as Flow Tracers for X-ray Dynamic Imaging of Various Biofluid Flows	Sang Joon Lee Pohang University of Science & Technology, Korea
10:45-11:10 AM	D25: Semiconductor Quantum Dot-Based Fluorescence Biological Sensor	Takeshi Fukuda Saitama University, Japan
11:10-11:35 AM	D26: Biomolecule Sensing Based on a Single-electron Transistor	Anri Nakajima Hiroshima University, Japan
12:00-13:30 PM	Lunch Break	
Session: Magnetic and Superconductor Materials III Chair: Eric Buhler		
14:00 -14:25 PM	D27: High Spin Polarization at Room temperature in Iron Oxide-based Ferromagnetic Semiconductors	Munetoshi Seki The University of Tokyo, Japan
14:25 -14:50 PM	D28: Particle Size Effect on Charge Ordering and Exchange Bias in (Sm,Ca,Sr)MnO ₃	Roman Puzniak Institute of Physics of the Polish Academy of Sciences, Poland

14:50 -15:15 PM	D29: Strain Investigations of FeSe _{1-x} Te _x Thin Films Prepared by PLD on PMN-PT Substrates	Sebastian Molatta Dresden University of Technology, Germany
15:15-15:45 PM	Session Break	
Session: Advanced Nanomaterials and Devices in Nanomedicine and Nanobiotechnology IV Chair: Munetoshi Seki		
15:45-16:10 PM	D30: Design of Soft Bionanomaterials Through Self-assembly and Complexation	Eric Buhler University Paris Diderot-Paris 7, France
16:10-16:35 PM	D31: Plasmonic Nanoprobes for Surface Enhanced Raman Spectroscopy of Biological Molecules	Valentinas Snitka Kaunas University of Technology
16:35-17:00 PM	D32: Clustered Magnetic Nanoparticles-Polymer Core-Shell Nanoparticles for Magnetic Thermochemotherapy	Koichiro Hayashi Nagoya University, Japan
17:30 PM	Dinner Social	

Tuesday May 5

14:45-15:45PM

Poster Session

P1	Broadband light absorption enhancement in moth's eye nanostructured organic solar cells	Weixia Lan Hong Kong Baptist University, Hong Kong
P2	An insight on oxide interlayer in organic solar cells: From light absorption and charge collection perspectives	Zhenghui Wu Hong Kong Baptist University, Hong Kong
P3	Influence of Post-annealing on the Microstructural and Optical Properties of CuO Nanowires via Solution Based Synthesis Technique	Sungsik Park Konkuk University, Korea
P4	ϵ -Branched Side Chain-Containing Diketopyrrolopyrrole-Based Polymers for Ultra-High Mobilities	Changduk Yang Ulsan National Institute of Science and Technology, Korea
P5	Synthesis of Nanosized Yttria –Dispersed Fe and Fe-Cr Alloys by Wet Milling	Jung-Ho Ahn Andong National University, Korea
P6	Hydrogenated $\text{Li}_4\text{Ti}_5\text{O}_{12}$ micro-particles as high-power anode materials for Li-ion batteries	Ji-Yong Eom Korea Automotive Technology Institute, Korea
P7	High Temperature Coefficient of Resistance Based on Ferroelectric Tunnel Junction	Xiaolin Zhao Shanghai Institute of Technical Physics, CAS, China
P8	Correlations and Synchronization in A Bose-Fermi Mixture	Pablo Diaz Universidad de La Frontera, Chile