

Correction of Program	
Member of Program Committee	Kimitoshi Kono RIKEN
Errata	
E1-1	Session Chair Baiotti Luca → Luca Baiotti
C2	See “Corrected Program of C2”
D2-2-I3	Partha Sarathi Mukhejeree → Partha Sarathi Mukherjee
Program Change	
B1-PTh-1	18 Thursday → 15 Monday
B2-PTu-10	16 Tuesday → 15 Monday
A1-PTh-4	18 Thursday → 17 Wednesday
B2-4	See “ Program change of B2-4”
B2-5	See “ Program change of B2-5”
B4-3	See “ Program change of B4-3”
D1-2,D1-5&D2-2	See ”Program change of D1-2, D1-5 & D2-2”
P-4	See “Program change of APPC Plenary Session P-4”
19 July (Fri) Morning Session	See “ New Program of July 19(Fri)”
Change of Chair	
D1-1: Plasma Physics (1)	
15 July (Mon) 14:10 Room: 303	Session chair: K.C. Lee => S. S. Kim
D1-2: Plasma Physics (2)	
16 July (Tue) 14:10 Room: 303	Session chair: Guosheng Xu => Jiaqi Dong
D2-4: Plasma Processing (4) 14:10 Room:302	
	Session chair: Makoto Kambara => Masaharu Shiratani
D4-1: Astro & Space Plasma(1)	
15 July (Mon) 16:30 Room: 304	Session chair: Dongsu Ryu => Tohru Hada
E1-2: Computational Physics(2)	
17 July (Wed) 16:30 Room: 302	Session chair: Masatoshi Imada
	⇒ Hideaki Takabe
Change of Speakers	
P-3:Plenary Session 17 July (Wed) Convention Hall	
9:00	P-3-P1 Neutrino Physics and its Future
	Speaker: Yifang Wang => Jun Cao
A2-2:Solid-State Quantum Physics and Devices (2) 15 July (Mon) Room:302	
16:30	A2-2-I1 Speaker: Edward Yi Chang => C. I. Kuo
D10-1:Physics oriented Plasma joint session 18 July (Thu) Room:303	

18:00 D10-1-I4 Summary for Astro and Space Plasma Sessions(30min.) Speaker: Dongsu Ryu=> Ryoji Matsumoto
Cancelled (Invited & Oral)
B4-3-I1 D2-2-I3 D2-3-I2 E1-2-I2 F-1-O2 F-3-O2 P-4-P2 F-2-O3(=> move to F-PTh:Poster)
Cancelled (Poster)
A1-PWe-21 A5-PTh-6 A6-PMo-17
B1-PMo-2 B1-PMo-5 B1-PTh-4 B2-PTu-5 B4-PWe-14
C3-PTh-1 D1-PWe-20 D2-PTu-15 D2-PTh-1 H-PTh-10

Program Change of P-4: APPC Plenary Session P-4

17 July (Wed) 10:50 Room: Convention Hall

Session chair: Wu Maw-Kuen

10:50 P-4-P1 Electro-Active Functionality of Complex Oxides (30 min.)

Hideo Hosono

~~11:20 P-4-P2 Quantum Computing in Silicon and the Limits of Silicon
Miniaturisation (30 min.) Michelle Simmons~~

**11:20 P-4-P3 Research on Undergraduate Physics Education: Guiding Change,
Transforming Ecosystems (30 min.) Pratibha Jolly**

Program Change of B2-4: Nuclear Physics (4)

16 July (Tue) 16:30 Room: 301AB

Session chair: Yuhu Zhanf

16:30 B2-4-I7 Super-Heavy Element Search at RIKEN (30 min.) Kosuke Morita

17:00 B2-4-I8 Plan for Nuclear Physics Experiments Using Rare Isotope Beams at RAON
(30 min.) Byungsik Hong

17:30 B2-4-O1 Study of the Multi-Nucleon Transfer Reactions of $^{136}\text{Xe}+^{198}\text{Pt}$ for
Producing Exotic Heavy Nuclei (15 min.) Yung Hee Kim

17:45 B2-4-O2 Pairing Effects in Nuclear Fusion Reaction (15 min.) Shuichiro Ebata

18:00 B2-4-O3 Fission of ^{210}Po Formed Via Different Entrance Channels (15 min.)
Kripamay Mahata

18:15 B2-4-O4 Fission Dynamics of Superheavy Compound Nuclei (15 min.) Yoritaka Iwata

**18:30 B2-5-O1 Flavor Structure of the Nucleon Electromagnetic Form Factors (15 min.)
Hyun-Chul Kim (Moved from B2-5)**

Program Change of B2-5: Nuclear Physics (5)

17 July (Wed) 16:30 Room: 102AB

Session chair: Hideyuki Sakai

16:30 B2-5-I9 Latest Results from the PHENIX Experiment in Transversely Polarized p+p Collisions at $\sqrt{s} = 200$ GeV (30 min.) FengWei

~~17:00 B2-5-O1 Flavor Structure of the Nucleon Electromagnetic Form Factors (15 min.) Hyun-Chul Kim (Moved to B2-4)~~

17:00 B2-5-O2 Azimuthal Angle Dependence of HBT Radii in Au+Au Collisions at RHIC-PHENIX (15 min.) Takafumi Niida(34)

17:15 B2-5-O3 Two Color QCD Phase Diagram with Clover Improved Wilson Fermion (15 min.) Yuji Sakai

17:30 B2-5-O4 Double Neutral Pion Photoproduction with FOREST at ELPH (15 min.) Qinghua He

17:45 B2-5-O5 A Search for Deeply Bound Kaonic Nuclear States at J-PARC (15 min.) Makoto Tokuda

Program change of B4-3: Astrophysics, Cosmology, and Gravitation (3)

17 July (Wed) 14:10 Room: 302

Session chair: Kazuharu Bamba

~~14:10 B4-3-I1 Planck Constraints on Holographic Dark Energy (30 min.) Miao Li~~

14:10 B4-PWe-3 Large-Scale Magnetic Fields from Inflation in Teleparallel Gravity (15min)Kazuharu Bamba

14:25 B4-PWe-4 Central Engine of Gamma-Ray Bursts(15min) Shigehiro Nagataki

14:40 B4-3-O1 Natural Emergence of Dark Radiation from Stephenson-Kilmister-Yang-Camenzind Theory of Gravity (15 min.) Nien-En Tung

14:55 B4-3-O2 Transmission Probability for Charged Dilatonic Black Holes in Various Dimensions (15 min.) Tritos Ngampitipan

15:10 B4-3-O3 Gravitational Wave from a Stellar Mass and an Intermediate Mass Black Hole Binary Surrounded by a Dark Matter Mini-Spike (15 min.) Kazunari Eda

15:25 B4-3-I2 Kagra and Gravitational-Wave Experiments (30 min.) Masaki Ando

15:55 B4-3-O4 Observation of Gravitationally Bound Quantum States of Ultracold Neutrons with Submicron Spatial Resolution (15 min.) Go Ichikawa

Corrected Program of C2

C2-1: Neutron Scattering (1)

16 July (Tue) 14:10 Room: 202

Session chair: Park Je-Geun

- 14:10 C2-1-I1 Structure and Properties of Tough Polymer Gels (25 min.) Mitsuhiro Shibayama
- 14:35 C2-1-O1 Interaction of Solutes (Sugars) with Membranes by Neutron Diffraction **(15 min.)**
Christopher Garvey
- 14:50 C2-1-O2 Diffusion Dynamics of Molecular Liquids Elucidated by Model-Free Analysis on
Quasi-Elastic Neutron Scattering **(15 min.)** Tatsuya Kikuchi
- 15:05 C2-1-I2 Local Structures of Ferroelectric Oxides Using Total Scattering Analysis **(25 min.)**
Ilkyoung Jeong
- 15:30 C2-1-I3 On the Superconducting Symmetry of Fe-Based Systems -Impurity Effects and
Microscopic Magnetic Behavior- **(25 min.)** Masatoshi Sato
- 15:55 C2-1-O3 Partial Disorder in Frustrated Triangular Spin Tube CsCrF₄ (15 min.) Takatsugu Masuda

C2-2: Neutron Scattering (2)

16 July (Tue) 16:30 Room: 202

Session chair: Endoh Yasuo

- 16:30 C2-2-I1 Current Status of the J-PARC MLF(The J-PARC Materials & Life Science Experimental
Facility (21 min.) Masatoshi Arai
- 16:51 C2-2-I2 The Present Status of AONSA (21 min.) Yasuhiko Fujii
- 17:12 C2-2-I3 China Spallation Neutron Source (21 min.) Hesheng Chen
- 17:33 C2-2-I4 Development in Neutron Science in Korea (21 min.) **K.H. Lee**
- 17:54 C2-2-I5 Development of Energy Selective Neutron Imaging (21 min.) Yoshiaki Kiyonagi
- 18:15 C2-2-O1 Small and Wide Angle Neutron Scattering Instrument TAIKAN of J-PARC (15 min.)
Jun-ichi Suzuki

Program Change of C3-1: Optical Science (1)

18 July (Thu) 14:10 Room: 201B

Session chair: Fabian Rotermund

- 14:10 C3-1-I1 Ultrafast Optical Comb Length Measurement (30 min.) Kaoru Minoshima
- 14:40 C3-1-I2 Sensing the Earth with Fiber Optics (30 min.) Zuyuan He
- ~~15:10 C3-1-I3 Light Field Tailoring for Laser Micronanofabrication (30 min.)
Hong-Bo Sun~~
- 15:10** C3-1-O1 Using Wavelength-Tunable, Reduced-Coherence Diode Laser Light to
Characterize Birefringent Optical Fibers (15 min.) Fang-Wen Sheu

15:25 C3-1-O2 Measurement of Differences and Relativity between Speeds of Light from Various Stars (15 min.) Yen-Ru Huang

Program change of D1-2: Plasma Physics (2)

16 July (Tue) 14:10 Room: 303

Session chair: Jiaqi Dong

14:10 D1-2-I1 Turbulence in Toroidal Plasma (30 min.) Akihide Fujisawa

14:40 D1-5-I2 A New Long Pulse QH-mode Regime and Progress in Understanding the L-H Transition on East (30 min.) Guosheng Xu

15:10 D1-2-O1 Observation of Turbulence Propagation at ELM Event and Transition Control Experiment in LHD (15 min.) Tokihiko Tokuzawa

15:25 D1-2-O2 Spontaneous Excitation of Geodesic Acoustic Mode by Toroidal Alfvén Eigenmode (15 min.) Zhiyong Qiu

15:40 D1-2-O3 Multi-Scale Density Micro-Turbulence and Internal Kink Mode Measured Synchronously by Tangential CO₂ Laser Scattering Diagnostic in the EAST Superconducting Tokamak (15 min.) Pengjun Sun

15:55 D1-2-O4 Dynamics of Nonlinear Interactions between Electron Temperature Gradient Mode and Drift Wave Mode in Linear Magnetized Plasmas (15 min.) Chanho Moon

Program change of D1-5: Plasma Physics (5)

18 July (Thu) 14:10 Room: 303

Session chair: Katsumi Ida

14:10 D1-5-I1 Ion Temperature Profile De-Stiffening Due to Conversion of Parallel Compression into Zonal Flows (30 min.) Sung Sik Kim

14:40 D1-2-I2 Turbulence, Zonal Flow and Limit Cycle Oscillation on HL-2A Tokamak (30 min.) Jiaqi Dong

15:10 D1-5-O1 Development and Physics Study of KSTAR (15 min.) Kwan Chul Lee

15:25 D1-5-O2 Experimental Investigation of L-I-H Transition Based on Gas Puff Imaging Diagnostic in EAST (15 min.) Linming Shao

15:40 D1-5-O3 Experimental Evidence of Critical Gradient Threshold for Particle Transport in the Tore Supra Tokamak (15 min.) Wulu Zhong

15:55 D1-5-O4 Experimental Study of Parallel Flow and Its Dependence of Magnetic Ripple in 3D Magnetic Field Configurations of Heliotron J (15 min.) Shinji Kobayashi

Program change of D2-2: Plasma Processing (2)

16 July (Tue) 16:30 Room: 303

Session chair: Rod Boswell

16:30 D2-2-I1 Diagnostics, Modeling and Process Control on VHF PECVD of Microcrystalline Silicon
(30 min.) Wei Ta-Chin

17:00 D2-2-I2 Simulated PECVD Growth of Carbon Nanotubes: State-Of-The-Art, Challenges and
Perspectives (30 min.) Erik Neyts

~~17:30 D2-2-I3 Plasma Processing of Waste for Recovery of Metal Values (30 min.) Partha Sarathi
Mukherjee~~

**17:30 D2-PTh-15 Correlation between Nanoparticle Growth and Plasma Parameters in Low
Pressure Reactive VHF Discharge Plasmas (15min)**

Masaharu Shiratani

**17:45 D2-PWe-8 Measurements of Electron Density and Electron Temperature of
Atmospheric Pressure Plasmas Generated with Liquid Electrodes
(15min) Kentaro Tomita**

18:00 D2-2-O1 Synthesis and Characterization of Si-Ni Composites as Negative Electrode of
Lithium-Ion Batteries by Plasma Spraying (15 min.) Gerile Naren

18:15 D2-2-O2 Effects of Hole Structure of a Bubble Self-Generating Parallel Type Punched Plate
Electrodes on Pulsed Discharges Inside Water (15 min.) Sonia Muradia

F-2: Physics Education (2)

16 July (Tue) 16:30 Room: 102AB

Session chairs: Xingkai Luo, Kasuhiko Misawa

16:30 F-2-I1 Collective Intelligence in Physics Class: How the Whole is More Than the
Sum of Its Parts? (25 min.) Junehee Yoo

16:55 F-2-I2 Comparison of U.S. and Chinese High-School Physics Teaching and the
Need for Active Learning at the College Level (25 min.) Sachiko Tosa

17:20 F-2-O1A Two-Tier Multiple Choice Questions to Diagnose Thermodynamic
Misconception of Thai and Laos Students (15 min.) Chanwit Kamcharean

17:35 F-2-I3 Tutorial at a Japanese University as an Interactive Physics Class (25 min.)
Haruko Uematsu

18:00 F-2-O2 "Physics Knowledge to be Taught" Described by Information Flow
(15 min.) Eizo Ohno

~~18:15 F-2-O3 The Effects of "Cognitive Acceleration Through Science Education"
Program in Japan (15 min.) Kazunari Taniguchi~~

=> Moved to F-PTh:Poster

New Program of Morning Session of 19 July (Fri)

19 July(Fri)	
APPC12&ASEPS3	
9:00-9:30	APPC Plenary 15 K. Shibata Physics of Magnetic Activities in the Sun and Stars
9:30-10:00	APPC Plenary 16 Paul K Chu Plasma Surface Modification of Advanced Materials for Biomedical Applications
10:00-10:30	APPC Plenary 17 Sumio Iijima Challenges on Carbon Nanotubes and Graphen Film
10:30-11:00	ASEPS Closing Conclusion and Statement Shoji Nagamiya Jhon Dudley
11:00-11:15	APPC/AAPPPS Summary Shoji Nagamiya
13:20-16:00	Women in Physics Board Meeting