

Wednesday, September 30

Venue: Convention Hall 300

## Session 4 : Universe Evolution and Matter Origin

Description: Research in the fields of elementary particles, nuclear physics, and astrophysics is being conducted at the Center for Integrated Research in Fundamental Science and Engineering (CiRfSE), with the aim of understanding them from a unified view of the history of the universe. We review recent developments and discuss prospects in the near future.

Session Organizer(s): Fumihiko Ukegawa

Session 4 / 5 Universe Evolution and Matter Origin / Research Frontier of Developing Energy and Environmental-friendly Materials	
Chair: Fumihiko Ukegawa, University of Tsukuba	
9:00-9:10	Kazuyuki Kanaya Director, Center for Integrated Research in Fundamental Science and Engineering, University of Tsukuba Opening Address and Introduction to CiRfSE
9:10-9:45	Guillaume Unal (tentative: LHC/ATLAS and Higgs) CERN, Switzerland
Chair: Eiji Nishibori, University of Tsukuba	
9:45-10:20	Bo Iversen Watching nanocrystals form Center for Materials Crystallography (CMC), Aarhus University
10:20-10:45	Break
Chair: ShinIchi Esumi, University of Tsukuba	
10:45-11:20	Roy Lacey Particle correlation studies in RHIC-BES; Probes for the critical end point in the QCD phase diagram State University of New York at Stony Brook, USA
Chair: Junji Nakamura, University of Tsukuba	
11:20-11:55	Junfa Zhu Applications of synchrotron radiation soft X-ray spectroscopies in the studies of energy-related functional materials National Synchrotron Radiation Laboratory, University of Science and Technology of China
11:55-13:00	Lunch (3F Convention Hall 300)
Session 4: Universe Evolution and Matter Origin (3F Convention Hall 300)	
Chair: Koji Sato, University of Tsukuba	
13:00-13:35	Leonardo Bronfman (Sub)mm-wave galactic astronomy in Chile: an historical perspective University of Chile
13:35-14:10	SooBong Kim (tentative: neutrino physics) Seoul National University, Korea
14:10-14:35	Hideki Okawa Searches for diboson resonances at the LHC-ATLAS Experiment University of Tsukuba
14:35-15:00	Oliver Busch Exploring the QGP with jets with ALICE University of Tsukuba
15:00-15:30	Break

Chair: Tatsuya Chujo, University of Tsukuba	
15:30-16:05	Yaxian Mao Hard probes at LHC' Central China Normal University, China
16:05-16:30	Yuji Takeuchi Development of far-infrared single-photon spectrometers based on superconducting tunnel junction for search for the cosmic background neutrino decay University of Tsukuba
16:30-16:55	Hiroshi Nakagomi Flow and correlation results from RHIC-PHENIX experiment University of Tsukuba
16:55-17:20	Nario Kuno Antarctic 10-m Terahertz Telescope Project University of Tsukuba
17:20-17:30	Shinhong Kim Closing Remarks Coordinator, Research Core for the History of the Universe, CiRfSE, University of Tsukuba