

Program

<http://www.scienceweb.tohoku.ac.jp/special/gcoeis2009/scientificProgram.html>

March 5 (Thu.) - March 7 (Sat.), 2009
 Multimedia Education and Research Complex 2nd Floor

| | AM-Session | Poster Session | PM-Session1 | PM-Session2 | |
|---------------------------|-------------------------------|--------------------------|-----------------|--------------------------------|---------|
| March 5 (Thu.) | Condensed Matter Physics I | Poster Presentations* | Nuclear Physics | Condensed Matter Physics II | |
| March 6 (Fri.) | Astrophysics | - | Philosophy | Particle Physics | Banquet |
| March 7 (Sat.) | Mathematics | - | - | - | |

* The exhibition of the poster is performed until 13:00 of March 6(Fri).

| Thursday, March 5 | |
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| AM-Session | Condensed Matter Physics I Chairman Y. Hirayama |
| 09:00 – 09:30 | K. Inoue (project leader) – “Opening & about the GCOE program” |
| 09:30 – 10:30 | K. von Klitzing – “The Quantum Hall Effect - A Phenomenon for all Area in Physics” |
| 10:30 – 11:00 | Coffee Break |
| 11:00 – 11:30 | J. B. Hannon – “Optimizing Graphene Morphology on SiC(0001)” |
| 11:30 – 12:00 | R. Saito – “Graphene and Carbon Nanotubes” |
| Poster Session | |
| 12:00 – 14:30 | Lunch Break + Poster Presentation |
| PM-Session1 | Nuclear Physics Chairman H. Tamura |
| 14:30 – 15:30 | H. Lenske – “Hypernuclear Physics as a Probe for In-Medium Flavour Dynamics” |
| 15:30 – 16:00 | H. Sakurai – “Origin of the Elements and RI Beam Factory” |
| 16:00 – 16:30 | H. Shimizu – “Quark Nuclear Physics at LNS, Sendai” |
| 16:30 – 17:00 | Coffee Break |
| PM-Session2 | Condensed Matter Physics II Chairman Y. Kuramoto |
| 17:00 – 18:00 | M. Sigrist – “Key symmetries of superconductivity: Inversion and Time Reversal Symmetry” |
| 18:00 – 18:30 | G. S. Uhrig – “Dynamic Control of quantum bits to maintain coherence” |
| 18:30 – 19:00 | M. B. Santos – “InSb-Based Heterostructures for Transport Experiments and Electronic Device Applications” |

| Friday, March 6 | | |
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| AM-Session | Astrophysics | Chairman T. Futamase |
| 09:00 – 10:00 | J. W. V. Storey – “Astronomy and Astrophysics from Antarctica” | |
| 10:00 – 10:30 | M. Kilbinger – “Cosmological constraints from weak lensing, SNIa, and CMB, and Bayesian model selection.” | |
| 10:30 – 11:00 | Coffee Break | |
| 11:00 – 11:30 | Y.-Y. Zhang – “Galaxy Clusters: Mass estimates & Substructures” | |
| 11:30 – 12:00 | Y. Ito – “A method to measure a relative transverse velocity of a source-lens-observer system using gravitational lensing of gravitational waves” | |
| 12:00 – 13:30 | Lunch Break | |
| PM-Session1 | Philosophy | Chairman K. Naoe |
| 13:30 – 14:30 | A. Feenberg – “Science, Technology and Democracy: Distinctions and Connections” | |
| 14:30 – 15:00 | K. Todayama – “What is “engineer’s ethics”?” | |
| 15:00 – 15:30 | L. Winner – “Mega-Narratives of Scientific Technology: A Time of Crisis.” | |
| 15:30 – 16:00 | Coffee Break | |
| PM-Session2 | Particle Physics | Chairman M. Yamaguchi |
| 16:00 – 17:00 | S. Freedman – “Prospects and Challenges in Elementary Particle Physics” | |
| 17:00 – 17:30 | H. Abe – “Extra dimensions and a mass hierarchy of elementary particles” | |
| 18:00 – 20:00 | Banquet (Multimedia Education and Research Complex 6F) | |

| Saturday, March 7 | | |
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| AM-Session | Mathematics | Chairman H. Kozono |
| 09:00 – 10:00 | P. W. Bates – “The motion of particles driven by surface energy on the boundary of a smooth domain” | |
| 10:00 – 10:30 | H. Kasai – “Emergence and Annihilation of Vortices for Ginzburg-Landau Equations” | |
| 10:30 – 11:00 | Coffee Break | |
| 11:00 – 11:30 | Y. Ueda – “Asymptotic stability of stationary wave for damped wave equation with non-convex convention term” | |
| 11:30 – 12:00 | Y. Nohara – “Toric degenerations of Gelfand-Cetlin systems and potential functions” | |
| 12:00 – 12:30 | K. Sato – “Structural basis for regulatory mechanism of muscle contraction: Role of filament lattice in auto-oscillation of sarcomeres” | |
| 12:30 – 13:00 | M. Yamaguchi – “Closing Remarks” | |