

Program of YKIS 2012 "From Gravity to Strong Coupling Physics"

15 Oct. (Mon.)

Chair person: Tohru Eguchi (Rikkyo)

9:50 - 10:00 Taichiro Kugo (YITP)

"Opening Address"

10:00 - 11:00 Daniel Jafferis (Harvard)

*"Exact results for five-dimensional superconformal field theories
with gravity duals"*

11:00 - 11:20 COFFEE BREAK

11:20 - 12:20 Yosuke Imamura (Titech)

" S^3/Z_n partition function and dualities"

12:20 - 14:00 LUNCH

Chair person: Kazutoshi Ohta (Meiji Gakuin)

14:00 - 15:00 Kimyeong Lee (KIAS)

"On M5 Branes"

15:00 - 16:00 Shinji Hirano (Nagoya)

"ABJ partition function"

16:00 - 16:30 COFFEE BREAK

16:30 - 17:30 Yu Nakayama (Caltech)

*"Holographic judgment on recent debates over scale vs
conformal invariance"*

16 Oct. (Tue.)

Chair person: Katsushi Ito (Titech)

10:00 - 11:00 Pedro Vieira (Perimeter Institute for Theoretical Physics)
"Tailoring three-point functions and integrability"

11:00 - 11:20 COFFEE BREAK

11:20 - 12:20 Yuji Satoh (Tsukuba)
"Gluon scattering amplitudes from gauge/string duality and integrability"

12:20 - 14:00 LUNCH

Chair person: Sanefumi Moriyama (Nagoya)

14:00 - 15:00 Gregory Korchemsky (Saclay)
"Hidden symmetries of scattering amplitudes and correlation functions in $N=4$ SYM"

15:00 - 16:00 Yoichi Kazama (Tokyo, Komaba)
"Holographic correlation functions at strong coupling from integrability"

16:00 - 16:30 COFFEE BREAK

16:30 - 17:30 Romuald Janik (Jagiellonian)
"Numerical relativity and boost-invariant plasma thermalization"

17 Oct. (Wed.)

Chair person: Shigeki Sugimoto (Kavli IPMU)

10:00 - 11:00 Carlos Nunez (Swansea)
"Aspects of gauge-strings duality"

11:00 - 11:20 COFFEE BREAK

11:20 - 12:20 Koji Hashimoto (Osaka/RIKEN)
"Holographic Magnetars"

12:20 - 14:00 LUNCH

Chair person: Tadakatsu Sakai (Nagoya)

14:00 - 15:00 Jacob Sonnenschein (Tel Aviv)
*"Baryonic popcorn - on holographic nuclear interaction, nuclear matter
and crystals of ADHM multi-instantons"*

15:00 - 15:30 COFFEE BREAK

15:30 - 17:30 Poster presentation (at room Y206 and Y306)

18 Oct. (Thu.)

Chair person: Makoto Natsuume (KEK)

10:00 - 11:00 Gary Horowitz (UC Santa Barbara)

"Transport in holographic lattices"

11:00 - 11:20 COFFEE BREAK

11:20 - 12:20 Jerome Gauntlett (Imperial College)

"Holographic superfluids and the dynamics of symmetry breaking"

12:20 - 14:00 LUNCH

Chair person: Shin Nakamura (Kyoto)

14:00 - 15:00 Sean Hartnoll (Stanford)

"The Pauli exclusion principle at strong coupling"

15:00 - 16:00 Veronika Hubeny (Durham)

"CFT probes of bulk geometry and causal holographic information"

16:00 - 16:30 COFFEE BREAK

16:30 - 17:30 Mukund Rangamani (Durham)

"Black brane hydrodynamics and the membrane paradigm"

18:00 - 20:00 BANQUET (at restaurant *"Camphora"*)

19 Oct. (Fri.)

Chair person: Masaki Shigemori (Nagoya)

10:00 - 11:00 Rajesh Gopakumar (Harish-Chandra Research Institute)
"What can we learn from coset CFTs and their duals?"

11:00 - 11:20 COFFEE BREAK

11:20 - 12:20 Yasuaki Hikida (Keio)
"Higher spin supergravity dual of Kazama-Suzuki model"

12:20 - 14:00 LUNCH

Chair person: Yutaka Matsuo (Tokyo)

14:00 - 15:00 Xi Yin (Harvard)
"From higher spins to strings"

15:00 - 16:00 Nikolay Gromov (King's College)
"Analytic solution of bremsstrahlung TBA"

16:00 - 16:30 COFFEE BREAK

16:30 - 17:30 Jan de Boer (Amsterdam)
"(Entanglement) Entropy in 3d higher spin theories"