

YKIS2022a “Gravity – The Next Generation –”

February 14 - February 18, 2022

Program with talk titles (version 220216-2)

The indicated date and time refer to LOCAL TIME in Japan (JST)

February 14 (Mon)

Morning Session

- 10:50-11:00 Opening address by Sinya Aoki (Director of YITP)
- 11:00-11:50 Misao Sasaki (IPMU) “Primordial black holes from inflation” [chair: Shinji Mukohyama]

Afternoon Session

- 15:00-15:50 Onsite discussion (including a 15min offline talk by Vicharit Yingcharoenrat (IPMU) [chair: Francesco Di Filippo])
- 16:00-16:50 Ruth Durrer (Geneva) “Testing General Relativity with future Large Scale Structure Observations” [chair: Atsushi Taruya]
- 17:00-17:50 Eiichiro Komatsu (Max-Planck Inst.) “Cosmic Birefringence” [chair: Takeshi Kobayashi]
- 18:00-18:50 David Wands (Portsmouth) “Large density perturbations from stochastic inflation” [chair: Antonio De Felice]

February 15 (Tue)

Morning Session

- 9:00-9:50 Onsite discussion
- 10:00-10:50 Andrei Linde (Stanford) “BICEP/Keck and cosmological attractors” [chair: Atsushi Naruko]
- 11:00-11:50 Renata Kallosh (Stanford) “Sequestered inflation in M-theory and string theory” [chair: Atsushi Naruko]

Afternoon Session

- 15:00-15:50 Onsite discussion (including a 15min offline talk by Sebastian Bahamonde (Tokyo Tech) [chair: Katsuki Aoki])
- 16:00-16:50 Alexei Starobinsky (Landau Inst.) “Multiple inflation with variable number of slow-roll inflatons” [chair: Antonio De Felice]
- 17:00-17:50 Paolo Creminelli (ICTP) “Beyond Perturbation Theory in Inflation” [chair: Takeshi Kobayashi]
- 18:00-18:50 Enrico Pajer (Cambridge) “Bootstrapping large graviton non-Gaussianities” [chair: Kazufumi Takahashi]

February 16 (Wed)

Morning Session

- 9:00-9:50 Onsite discussion
- 10:00-10:50 Patrick Brady (UWM/LIGO) “Gravitational-wave astronomy with LIGO-Virgo-KAGRA in the 2020s” [chair: Takahiro Nishimichi]
- 11:00-11:50 Masaki Ando (Tokyo/KAGRA) “Gravitational-Wave Astrophysics with KAGRA and Beyond” [chair: Takahiro Nishimichi]

Afternoon Session

- 15:00-15:50 Onsite discussion (including a 15min offline talk by Takeshi Chiba (Nihon U) [chair: Kazufumi Takahashi])
- 16:00-16:50 Johannes van den Brand (Nikhef/Virgo) “Gravitational wave science with Virgo and Einstein Telescope” [chair: Sachiko Kuroyanagi]
- 17:00-17:50 Karsten Danzmann (AEI/LISA) “LISA and the low-frequency gravitational wave astronomy in the 2030s” [chair: Sachiko Kuroyanagi]
- 18:00-18:50 Vitor Cardoso (CENTRA) “Black holes as engines of discovery” [chair: Francesco Di Filippo]

February 17 (Thu)

Morning Session

- 9:00-9:50 Onsite discussion
- 10:00-10:50 Rong-Gen Cai (ITP CAS) “The interior structure of hairy black holes” [chair: Tomohiro Fujita]
- 11:00-11:50 Masahiro Takada (IPMU) “Precision cosmology with galaxy surveys: σ_8 tension?” [chair: Atsushi Taruya]

Afternoon Session

- 15:00-15:50 Onsite discussion (including a 15min offline talk by Keigo Shimada (Tokyo Tech) [chair: Tomohiro Fujita])
- 16:00-16:50 Roberto Emparan (Barcelona) “Black Tsunamis and Naked Singularities in AdS” [chair: Mohammad Ali Gorji]
- 17:00-17:50 Leonardo Senatore (Stanford) “Constraints on Primordial non-Gaussianities from BOSS data and other recent results from the EFTofLSS” [chair: Tomohiro Fujita]

February 18 (Fri)

Morning Session

- 9:00-9:50 Onsite discussion
- 10:00-10:50 Emanuele Berti (Johns Hopkins) “Black hole spectroscopy” [chair: Sugumi Kanno]
- 11:00-11:50 Lisa Randall (Harvard) “Effective Theory of Warped Compactifications and the Implications for KKLT” [chair: Sugumi Kanno]

Afternoon Session

- 15:00-15:50 Onsite discussion (including a 15min offline talk by Tomohiro Fujita (WIAS) [chair: Mohammad Ali Gorji])
- 16:00-16:50 Tsvi Piran (Hebrew) “Gravitational radiation of the 30ies - Jet gravitational waves and the secret of hidden jets” [chair: Kunihito Ioka]
- 17:00-17:50 Masaru Shibata (AEI/YITP) “The predictive power of numerical relativity” [chair: Kunihito Ioka]
- 18:00-18:50 Claudia de Rham (Imperial) “Positivity and Causality with Gravity” [chair: Katsuki Aoki]
- 18:50-19:00 Closing address by Shinji Mukohyama

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