

Program of YKIS2018a (ver. 180216)

[2/19(Mon)]

9:00- 9:45 Registration

9:45- 9:50 Opening address by Sinya Aoki (Director of YITP)

Chair: Shinji Mukohyama

9:50-10:50 (50min+10min) David Shoemaker (MIT/LIGO) "Status, Results, and Future Plans for LIGO and Virgo"

10:50-11:20 Break

Chair: Yudai Suwa

11:20-12:20 (50min+10min) Masaki Ando (Tokyo/KAGRA) "KAGRA and B-DECIGO"

12:20-12:40 (15min+ 5min) Takahiro Tanaka (Kyoto) "On ringing gravitational waves from black holes"

12:40-14:00 Lunch

Chair: Kenta Kiuchi

14:00-15:00 (50min+10min) Karsten Danzmann (AEI/LISA&LFP) "Low-frequency gravitational wave astronomy from space: LISA and its Pathfinder"

15:00-16:10 short poster presentation (ODD poster numbers)

16:10-16:40 Break

Chair: Masaru Shibata

16:40-17:40 (50min+10min) Eiichiro Komatsu (Max Planck) "Finding Cosmic Inflation"

17:40-18:00 (15min+ 5min) Arman Shafieloo (KASI) "Probing features in the primordial power spectrum"

18:00-18:20 (15min+ 5min) Shuntaro Mizuno (YITP) "Primordial perturbations from hyperinflation"

[2/20(Tue)]

Chair: Frans Pretorius

9:50-10:50 (50min+10min) Lisa Randall (Harvard) "Ellipticity in Black Hole Mergers"

10:50-11:20 Break

Chair: Kunihito Ioka

11:20-12:20 (50min+10min) Shigeki Matsumoto (IPMU) "Weak-charged WIMP"

12:20-12:40 (15min+ 5min) Kenji Kadota (IBS) "Cosmological Exploration for Light Dark Matter"

12:40-14:00 Lunch

Chair: Kurt Hinterbichler

14:00-15:00 (50min+10min) Claudia de Rham (Imperial) "Beyond Einstein Gravity"

15:00-16:10 poster session @ Y206 & Y306 (ODD poster numbers)

16:10-16:40 Break

Chair: Ruth Gregory

16:40-17:40 (50min+10min) Roberto Emparan (ICREA, Barcelona) "Black hole fusion in the extreme mass ratio limit"

17:40-18:00 (15min+ 5min) Elias Kiritsis (APC/Crete) "On the self tuning of the cosmological Constant"

18:00-18:20 (15min+ 5min) Takeshi Kobayashi (SISSA) "Baryons, Dark Matter, and Light Scalars"

[2/21(Wed)]

Chair: Jiro Soda

9:50-10:50 (50min+10min) Nima Arkani-Hamed (IAS)

10:50-11:20 Break

Chair: Takeshi Chiba

11:20-12:20 (50min+10min) Renata Kallosh (Stanford) "Testing maximal supersymmetry in cosmology"

12:20-12:40 (15min+ 5min) Yusuke Yamada (Stanford) "Multi-field alpha attractor in fundamental theory"

12:40-14:00 Lunch

Chair: Bernard John Carr

14:00-15:00 (50min+10min) Alexei Starobinsky (Landau Inst.) "Inflation and previous evolution of the Universe in R^2 gravity and related models"

15:00-15:20 (15min+ 5min) Jinn-Ouk Gong (KASI) "Distribution of primordial black holes and small-scale constraints"

15:20-16:30 short poster presentation (EVEN poster numbers)

16:30-17:00 Break

Chair: David Wands

17:00-18:00 (50min+10min) Misao Sasaki (YITP) "Inflation, primordial black holes, and gravitational waves"

19:00-21:00 Banquet

[2/22(Thu)]

Chair: Christophe Ringeval

9:50-10:50 (50min+10min) Francois Bouchet (IAP/Planck) "CMB & Cosmology: then and now after Planck"

10:50-11:20 Break

Chair: Atsushi Taruya

11:20-12:20 (50min+10min) Masashi Hazumi (KEK/LiteBIRD) "LiteBIRD and future CMB polarization experiments"

12:20-12:40 (15min+ 5min) Cyril Pitrou (IAP) "Precision big bang nucleosynthesis with improved 4He predictions"

12:40-14:00 Lunch

Chair: Kazuya Koyama

14:00-15:00 (50min+10min) Uros Seljak (Berkeley) "Testing fundamental physics with large scale structure of the universe"

15:00-16:10 poster session @ Y206 & Y306 (EVEN poster numbers)

16:10-16:40 Break

Chair: Ruth Durrer

16:40-17:40 (50min+10min) Masahiro Takada (IPMU) "Subaru HSC constraint on PBH and the current status of Subaru wide-area galaxy surveys"

17:40-18:00 (15min+5min) Matteo Raffaele Fasiello (ICG, Portsmouth) "LSS Probes of Cosmic Acceleration"

18:00-18:20 (15min+5min) Atsushi Naruko (Tohoku) "Long-wavelength perturbations around homogeneous but anisotropic spacetime"

[2/23(Fri)]

Chair: Nicolas Yunes

9:50-10:50 (50min+10min) Frans Pretorius (Princeton) "Getting the most out of gravitational wave merger observations"

10:50-11:20 Break

Chair: Antonio De Felice

11:20-12:20 (50min+10min) Emanuele Berti (Mississippi) "Gravitational-wave astronomy, strong gravity and new physics"

12:20-12:40 (15min+ 5min) Leo C Stein (Caltech) "Numerical black holes and mergers beyond general relativity"

12:40-14:00 Lunch

Chair: Rachel Rosen

14:00-15:00 (50min+10min) David Langlois (APC) "Dark energy and modified gravity in Degenerate Higher-Order Scalar-Tensor (DHOST) theories"

15:00-15:20 (15min+ 5min) Teruaki Suyama (RESCEU) "Spontaneous scalarization and heavy neutron stars"

15:20-15:40 (15min+ 5min) Ippocratis Saltas (CEICO) "Vainshtein in the UV"

15:40-16:10 Break

Chair: Takahiro Tanaka

16:10-17:10 (50min+10min) Nathalie Deruelle (APC) "The problem of motion in gravity theories : history and new perspectives"

17:10-17:15 Closing