

() indicates duration including the discussion. The unit is minutes. [Blue are invited talks.](#)

1st Day: June 17

8:30-9:00 Registration

chair : N.Kanda

9:00-9:15 Opening

Opening Remarks by SOC chair, Takashi Nakamura

Address by the President of Osaka City University, Yoshiki Nishizawa

9:15-11:15 Session 1 : Status of Detectors (1) Ground-based

(40) [Takaaki Kajita : Status of the KAGRA project](#)

(40) [Matthew John Evans : Advanced LIGO: status and plans](#)

(40) [Francesco Piergiovanni : Status of the Advanced Virgo gravitational wave detector](#)

coffee break

chair : R.N. Manchester

11:30-12:30 Session 2: GW sources and physics (1)

(20) Chunglee Kim : Implications of PSR J0737-3039B for the Galactic NS-NS binary merger rate

(20) Tomoya Kinugawa : Pop III binary black holes with chirp mass of $\sim 30 M_{\text{sun}}$ and detectability of the quasi-normal mode with frequency ~ 200 Hz to confirm or refute the Einstein theory in the strong gravity region

(20) Frank Ohme : Distinguishing compact binary population synthesis models using gravitational wave observations of coalescing binary black holes

lunch

chair : Y.Itoh

14:00-15:15 Session 3 : Poster Enlightening Talks

1minute x 64 posters

coffee break + **Poster exhibition**

chair : S.Bose

16:30-18:40 Session 4 : Templates of GWs

(50) [Alessandra Buonanno : Finalizing gravitational-wave modeling for searches in the advanced detectors era](#)

(20) Hiroyuki Nakano : Golden events for ringdown gravitational waves

(20) Carl-Johan Haster : Distinguishing types of compact-object binaries using the gravitational-wave signatures of their mergers

(20) Christopher Philip Luke Berry : Binary neutron-star parameter estimation with Advanced LIGO

(20) Collin Capano : A Search for Binary Black Holes with Non-precessing Spin in Early Advanced LIGO

2nd Day: June 18

chair : T.Nakamura

9:00-11:20 Session 5 : Follow-ups/Counterparts (1) X, Gamma ray

- (50) Peter Istvan Mészáros : X and Gamma Counterparts of Gravitational Wave Sources
- (20) Nobuyuki Kawai : iWF-MAXI: soft X-ray transient monitor on the ISS
- (50) Edo Berger : Short GRBs: Evidence for Compact Object Mergers and Lesson for Gravitational Wave Follow-up
- (20) Daisuke Yonetoku : Expected detection rate of gravitational wave estimated by Short Gamma-Ray Bursts

coffee break

chair : N.Kawai

11:40-12:30 Session 6 : Follow-ups/Counterparts (2) Optical

- (50) Shrinivas R Kulkarni : Follow up of GW sources by optical/NIR telescopes

Group Photo

lunch

chair : N.Kawai

14:00-16:20 Session 7 : Follow-ups/Counterparts (2, cont'd) Optical

- (20) Hsin-Yu Chen : Facilitating follow-up of EM counterparts to GW events
- (20) Gianluca Maria Guidi : Multi-messenger gravitational wave and electromagnetic astronomy: prospects and challenges
- (20) Kipp Cannon : Searching for Compact Object Collisions with Latencies of Seconds
- (20) Reed Essick : LOCALIZATION OF SHORT DURATION GRAVITATIONAL-WAVE TRANSIENTS WITH THE EARLY ADVANCED LIGO AND VIRGO DETECTORS
- (20) Shota Kisaka : Engine-powered macronovae
- (20) Yuichiro Sekiguchi : Properties of dynamical ejecta from binary neutron star merger
- (20) Masaomi Tanaka : Radioactively-powered emission from compact binary mergers

coffee break

chair : B.Mours

16:40-18:10 Session 8: Data Analysis (1)

- (50) Maria Alessandra Papa : Results, methods and prospects from the analysis of the data of ground-based gravitational wave detectors
- (20) Vivien Raymond : Population Inference in Gravitational-Wave Astronomy
- (20) Tjonnie Guang Feng Li : Inferring the nuclear equation of state from binary neutron star mergers

(18:30- BUS to banquet will depart from the conference site.)

19:30-21:30 Banquet

3rd Day: June 19

chair : M. Hewitson

9:00-10:10 Session 9: Status of Detectors (2) Pulsar Timing Array

- (50) [Richard N Manchester : The Search for Gravitational Waves using Precision Pulsar Timing](#)
- (20) Pablo Antonio Rosado : On the properties of the first signal detected by pulsar timing arrays

(Session 10 is cancelled.)

coffee break

chair : M.A.Papa

10:40-11:40 Session 11: Data analysis (2) results/methods

- (20) Grant David Meadors : Scorpius X-1 and other LMXBs: directed and all-sky searches for continuous gravitational waves
- (20) Chris Messenger : Gravitational waves from Sco X-1: A comparison of search methods and prospects for detection with advanced detectors
- (20) Heinz-Bernd Eggenstein : Einstein@Home all-sky search and follow-up for continuous gravitational waves from isolated neutron stars in LIGO's 6th science run data

lunch (The lunch box will be served at 12:30.)

chair : T.Tanaka

14:00-14:10 Student Poster Awards

14:10-15:30 Session 12: Status of Detectors (3) Space-based

- (40) [Martin Hewitson : eLISA and LISA Pathfinder](#)
- (40) [Masaki Ando : Space Gravitational-Wave Antenna: DECIGO and Pre-DECIGO](#)

coffee break

chair : E. Katsavounidis

16:00-16:40 Session 13: GW sources and Physics (3)

- (20) Eric Thrane : Detecting gravitational-wave backgrounds with Advanced Detectors: opportunities and challenges
- (20) Atsushi Nishizawa : Measuring Gravitational-Wave Propagation Speed with Multimessenger Observations

16:40-18:10 Session 14 Follow-ups/Counterparts (3) Neutrino

- (50) [Mark Robert Vagins : Supernova Neutrinos](#)
- (20) Takaaki Yokozawa : Probing explosion mechanisms of supernovae using both gravitational waves and neutrinos with realistic detector responses
- (20) Jade Powell : Determining the core-collapse supernovae explosion mechanism with gravitational waves.

4th (final) Day: June 20

chair : G.M.Guidi

9:00-10:00 Session 15: Data analysis (3) results/methods

(20) Alex Nielsen : Neutron star-black hole binaries: searching and science

(20) Kenta Kiuchi : Magnetohydrodynamics simulation of black hole-neutron star merger: Mass ejection and short gamma-ray burst

(20) Kyohei Kawaguchi : Black hole-neutron star binary merger: dependence on black hole spin orientation and equations of state

chair : T.Nakamura

10:00-11:00 Session 16 : Presentations by Poster Award Winners

(20 x 3) Oral presentation of 3 poster awards

coffee break

chair : T.Nakamura

11:15-12:15 Last Session: Summary and Discussions

[Bruce Allen : \(Personal\) summary of new, novel, and interesting results presented at this workshop](#)

12:15-12:20 Closing