

# **Multi-messenger Astronomy and Astrophysics Workshop**

## **Report of Contributions**

Contribution ID: 2

Type: **not specified**

## Opening Address

*Wednesday, 5 February 2020 13:30 (10 minutes)*

**Presenter:** RYU, Dongsu (UNIST)

**Session Classification:** Opening

Contribution ID: 3

Type: **not specified**

# Prospect for Korea Neutrino Observatory

*Wednesday, 5 February 2020 13:40 (30 minutes)*

**Presenter:** YU, Intae (Sungkyunkwan Univ.)

**Session Classification:** KNO Science, Neutrino Physics

Contribution ID: 4

Type: **not specified**

## Neutrinos from Hypercritical Accretion

*Friday, 7 February 2020 11:00 (30 minutes)*

**Presenter:** PARK, Myeong-Gu (Kyungpook National Univ.)

**Session Classification:** KNO Science, Astrophysics II

Contribution ID: 5

Type: **not specified**

## **Neutrinos from relic supernova and nearby core collapse (including failed SNe)**

*Friday, 7 February 2020 11:30 (30 minutes)*

**Presenter:** KIM, Sang Chul (KASI)

**Session Classification:** KNO Science, Astrophysics II

Contribution ID: 6

Type: **not specified**

# Neutrino Emissions from Tidal Disruption Remnants

*Friday, 7 February 2020 12:00 (30 minutes)*

**Presenter:** HAYASAKI, Kimitake (Chungbuk Nat'l Univ.)

**Session Classification:** KNO Science, Astrophysics II

Contribution ID: 7

Type: **not specified**

## Fully analytic IMR waveform

*Friday, 7 February 2020 09:00 (30 minutes)*

**Presenter:** CHO, Gihyuk (Seoul National Univ.)

**Session Classification:** Gravitational Wave II

Contribution ID: 8

Type: **not specified**

## **Search for an EOB Hamiltonian describing two black holes with arbitrary eccentricities**

*Friday, 7 February 2020 09:30 (30 minutes)*

**Presenter:** KANG, Gungwon (KISTI)

**Session Classification:** Gravitational Wave II



Contribution ID: 9

Type: **not specified**

# **Numerical studies for accreting matter flow around a black hole**

*Friday, 7 February 2020 10:00 (30 minutes)*

**Presenter:** KIM, Jinho (KASI)

**Session Classification:** Gravitational Wave II

Contribution ID: **10**

Type: **not specified**

## **Status & Perspective of LIGO/KAGRA GW Observations and GW Research in Korea**

*Thursday, 6 February 2020 09:00 (30 minutes)*

**Presenter:** LEE, Hyung Mok (KASI)

**Session Classification:** Gravitational Wave I

Contribution ID: 11

Type: **not specified**

# Neutron star equations of state and gravitational wave

*Thursday, 6 February 2020 09:30 (30 minutes)*

**Presenter:** LEE, Chang-Hwan (Pusan National Univ.)

**Session Classification:** Gravitational Wave I

Contribution ID: 12

Type: **not specified**

# Deep Learning Model of Gravitation Waves from Binary Black Hole Coalescence

*Thursday, 6 February 2020 10:00 (30 minutes)*

**Presenter:** OH, Sanghoon (NIMS)

**Session Classification:** Gravitational Wave I

Contribution ID: 13

Type: **not specified**

# **Gamma-ray and Neutrino Emissions due to Cosmic-Ray Protons Accelerated at Intracluster Shocks in Galaxy Clusters**

*Thursday, 6 February 2020 11:00 (30 minutes)*

**Presenter:** RYU, Dongsu (UNIST)

**Session Classification:** Astrophysics

Contribution ID: 14

Type: **not specified**

## **Gamma-Ray and Neutrino Emissions from Starburst Galaxies and Implication for KNO**

*Thursday, 6 February 2020 11:30 (30 minutes)*

**Presenter:** HA, Ji-Hoon (UNIST)

**Session Classification:** Astrophysics

Contribution ID: 15

Type: **not specified**

## **Detector Development for Korea Neutrino Observatory Project**

*Wednesday, 5 February 2020 14:10 (30 minutes)*

**Presenter:** JOO, Kyung Kwang (Chonnam National Univ.)

**Session Classification:** KNO Science, Neutrino Physics

Contribution ID: 16

Type: **not specified**

# Theoretical Perspectives on neutrino physics

*Wednesday, 5 February 2020 14:40 (30 minutes)*

**Presenter:** KANG, Sin Kyu (Seoul Tech)

**Session Classification:** KNO Science, Neutrino Physics



Contribution ID: 17

Type: **not specified**

## **Multi-messenger Science with Neutrino Telescopes**

*Wednesday, 5 February 2020 15:30 (30 minutes)*

**Presenter:** ROTT, Carsten (Sungkyunkwan Univ.)

**Session Classification:** KNO Science, Multi-messenger EM Observations

Contribution ID: 18

Type: **not specified**

## Gravitational- wave EM Counterpart Korean Observatory (GECKO)

*Wednesday, 5 February 2020 16:00 (30 minutes)*

**Primary author:** IM, Myungshin (Seoul National Univ.)

**Co-authors:** PAEK, Gregory S. H. (Seoul National Univ.); KIM, Joonho (Seoul National University)

**Presenters:** PAEK, Gregory S. H. (Seoul National Univ.); KIM, Joonho (Seoul National University); IM, Myungshin (Seoul National Univ.)

**Session Classification:** KNO Science, Multi-messenger EM Observations