

Survey Science Group Workshop 2020 (Feb. 10 – 12 2020 @ high-1 Resort)

- Each invited talk has 15 (12+3) minutes while the contribution talk has 10 (8+2) minutes.
- We encourage you to give a talk in English for non-Korean audience.

Time	Monday (10th)
16:30 - 17:30	Registration
17:30 - 19:00	Dinner
18:50 - 19:05	Welcome Remarks (Park, Changbom)
Session I. Tensions in the Standard Cosmology (<i>Chair: Ho Seong Hwang</i>)	
19:05 - 19:20	Young-Wook Lee (Yonsei): Supernova cosmology, luminosity evolution, and dark energy
19:20 - 19:35	Myung Gyoon Lee (SNU): The Hubble Tension in 2020
19:35 - 19:50	Arman Shafieloo (KASI/UST): Phenomenologically Emergent Dark Energy and Ruling Out Cosmological Constant
19:50 - 20:05	David Parkinson (KASI): Cosmology with large-area optical and radio surveys
20:05 - 20:30	Discussion
20:30 - 20:50	Coffee Break
Session II. Gravitational Waves (<i>Chair: Myeong-Gu Park</i>)	
20:50 - 21:05	Hyung Mok Lee (KASI): Current status of Gravitational Wave Observations
21:05 - 21:20	Myungshin Im (SNU): KMTNet Synoptic Survey of Southern Sky (KS4)
21:20 - 21:35	Jinn-Ouk Gong (KASI): Induced second-order gravitational waves
21:35 - 21:50	Discussion
Time	Tuesday (11th)
07:30 - 09:00	Breakfast
Session III. Optical, Infrared, & Radio Survey Projects (<i>Chair: Changbom Park</i>)	
09:10 - 09:25	Woong-Seob Jeong (KASI): Status of All-Sky Infrared Spectro-Photometric Survey Mission, SPHEREx
09:25 - 09:40	Aran LYO (KASI): JCMT Large Program Report
09:40 - 09:55	Woojin Kwon (KASI): ALMA Status and Large Programs
09:55 - 10:10	Hyunjin Shim (KNU): NEPSC2: The SCUBA-2 850um Survey in the North

	Ecliptic Pole
10:10 – 10:25	Narae Hwang (KASI): Korean Large Optical Telescopes: Gemini to GMT
10:25 – 10:45	Discussion
10:45 – 11:05	Coffee Break
Session IV. AI & Big Astronomical Data (<i>Chair: Juhan Kim</i>)	
11:05 – 11:20	Yun-Young Choi (KHU): Deep Imaging of SDSS by Deep Learning
11:20 – 11:35	Jae-Jun Lee (KASI): Managing and analyzing 700 nights of IGRINS data
11:35 – 11:45	Sungryong Hong (KASI): Big Data, Google Cloud Platform, and Astronomical Sciences
11:45 – 11:55	Cristiano Sabiu (Yonsei): Deep learning approach to large scale structure cosmology
11:55 – 12:05	Sungwook E. Hong (UoS): Weak Lensing Mass Map Reconstruction of Merging Clusters with Convolutional Neural Network
Session V. Active Galactic Nuclei (<i>Chair: Juhan Kim</i>)	
12:05 – 12:20	Minjin Kim (KNU): Physical Connection between Stellar Growth and Black Hole Growth in Nearby Type I Active Galactic Nuclei
12:20 – 12:30	Hyunsung Jun (KIAS): Constraints on the Black Hole Growth for High Redshift Quasars
12:30 - 14:00	Photo / Lunch
14:00 – 15:30	Discussion on Korean Survey Science Projects (Chair: Ho Seong Hwang)
15:30 – 16:00	Coffee Break
16:00 – 17:10	Discussion on Korean Computational Astrophysics Projects (Chair: Juhan Kim)
18:00 - 20:00	Banquet
Time	Wednesday (12th)
07:30 - 09:10	Breakfast
Session VI. Spectroscopic Survey Sciences (<i>Chair: Myung Gyoon Lee</i>)	
09:10 - 09:25	Se-Heon Oh (Sejong): Gas profile decomposition for large extragalactic spectral-line surveys

09:25 - 09:40	Taysun Kimm (Yonsei): Future prospects of simulating emission lines
09:40 - 09:50	Youkyung Ko (KASI): A Wide-field Spectroscopic Survey of Globular Clusters in the Virgo Cluster
09:50 - 10:00	Soung-Chul Yang (KASI): Metal-Poor F-G-K type Local Subdwarfs from SDSS+GAIA DR2: Spectrophotometric & Kinematic Properties
10:00 - 10:10	Seungsoo Hong (Yonsei): The CN Survey for Bulge Red Clump Stars: New Insights on the Structure and Formation of the Milky Way Bulge
10:10 - 10:25	Discussion
10:25 - 10:45	Coffee Break
Session VII. Local and Nearby Universe (<i>Chair: Hong Bae Ann</i>)	
10:45 - 11:00	Sungsoo S. Kim (KHU): ^3He Distribution on the Lunar Surface
11:00 - 11:15	Ho Seong Hwang (KASI): Complete 3D Mapping of the Local Accelerating Universe
11:15 - 11:25	Ho-Gyu Lee (KASI): MOS Stellar Survey
11:25 - 11:40	Jongwan Ko (KASI): CLEVOR's Activities to Explore the Low Surface Brightness Universe
11:40 - 11:50	Yun Hee Lee (KNU): Bar Classification based on the Potential Map
11:50 - 12:05	Chunglee Kim (EWU): What we have been learned about NS/BH populations via GW observations?
12:05 - 12:25	Discussion
12:25 - 14:00	Lunch
Session VIII. Survey Sciences (<i>Chair: Ena Choi</i>)	
14:00 - 14:15	Taehyun Jung (KASI): Multi-Frequency AGN Survey with KVN and E-KVN Project
14:15 - 14:25	Motonari Tonegawa (KIAS): Cosmological Information from the Small-scale Redshift Space Distortion
14:25 - 14:35	Stephen Appleby (KIAS): Measuring the growth factor using Minkowski tensors
14:35 - 14:45	Hyunmi Song (Yonsei): Disentangling the role of halo mass, density and cosmic web filaments in shaping galaxy growth at high redshift
14:45 - 14:55	Junsup Shim (KIAS): Identification of Cosmic Voids as the Cluster Counterpart
14:55 - 15:05	Yongmin Yoon (KIAS): Galaxy Color and Structure Dependence of the Scatter in the Fundamental Plane of Early-type Galaxies
Session IX. Multi-Messenger Sciences (<i>Chair: Myungshin Im</i>)	
15:05 - 15:15	Gu Lim (SNU): Intensive Monitoring Survey of Nearby Galaxies (IMSNG): Constraints on the Progenitor System of a Type Ia Supernova SN 2019ein from its Early Light Curve

15:15 - 15:25	Gregory S. H. Paek (SNU): Gravitational-wave Electromagnetic Counterpart Korean Observatory (GECKO): Network of Telescopes and Follow-up Observation of 5190425z
15:25 - 15:35	Joonho Kim (SNU): Optical follow-up observation of gravitational wave events with the KMTNet
15:35 - 15:50	Discussion
15:50 - 15:55	Closing Remarks (Park, Changbom)