

GWUniverse Focus Workshop: 7-Dimensional Telescope and Its Scientific Promises

Wednesday, 22 December 2021 - Wednesday, 22 December 2021

SNU

Scientific Programme

Workshop Program (All are invited talks)

09:15 – 09:20: Opening remark
Hyung Mok Lee (Seoul National University)

09:20 – 09:40: Introduction of 7-Dimensional Telescope (7DT)
Myungshin Im (Seoul National University)

09:40 – 10:00: 7-Dimensional Sky Survey (7DS)
Myungshin Im (Seoul National University)

10:00 – 10:10: 7DS/7DT Q&A

10:10 – 10:20: break

10:20 – 10:35: Automated Operation of KIAS Chamnun Telescope (KCT)
Gu Lim (Seoul National University)

10:35 – 10:50: gpPy for automatic reduction and transient search
Gregory S. H. Paek (Seoul National University)

10:50 – 11:10: Robotic Operation Software of SDSS-V/LVM
Changgon Kim & Hojae Ahn (Kyung Hee University)

11:10 – 11:35: What can we learn from multicolor observations of supernovae?
Sung-Chul Yoon (Seoul National University)

11:35 – 12:00: Multiple faces of neutron star mergers as seen from different directions
Z. Lucas Uhm (Korea Astronomy and Space Science Institute)

12:00 – 13:30: Lunch

13:30 – 13:55: Effects of medium-band data on 7DS science cases: galaxy science
Seong-Kook J. Lee (Seoul National University)

13:55 – 14:20: Time Delay Cosmography With Strong Lens Systems
Arman Shafieloo (Korea Astronomy and Space Science Institute)

14:20 – 14:45: Science of the Initial Conditions of the Universe with 7DS
Changbom Park (Korea Institute for Advanced Study)

14:45 – 15:00 Break

15:00 – 15:25: Spectral Variability of Active Galactic Nuclei
Minjin Kim (Kyungpook National University)

15:25 – 15:50: Potential AGN Science with the 7DT combined with spectroscopy facilities
Jong-Hak Woo (Seoul National University)

15:50 – 16:00 Break

16:00 – 16:25: Understanding the Variable Sky with Near-simultaneous, Multi-filter Photometry:
Stellar Activity and Solar System
Seo-Won Chang (Seoul National University)

16:25 – 16:50: Possibility of Solar System Research with 7DT/7DS
Masateru Ishiguro (Seoul National University)

16:50 – 17:15: Synergy with SPHEREx
Yujin Yang (Korea Astronomy and Space Science Institute)

17:15 – 17:45: Discussion/Meeting Adjourn