



## Exoplanets: Observations Confront Theory (1st announcement)

### Scientific Rationale:

Since the discovery of 51-Peg-b in 1995, the number of known exoplanets has been growing exponentially, reaching over ~5000. With such a rich harvest in the last three decades via various ground-based and space-based programs, the exoplanet research is migrating to a new era, towards a comprehensive view of Exo-planets. The abundant observations allow both in-depth analyses of individual exoplanet systems and statistical investigations of large exoplanet samples, stimulating new theory and modeling of planet formation and evolution. This meeting will bring international experts both in theoretical and observational areas, providing a broad overview about the current status and recent progresses on the detection, characterization, formation and evolution of exoplanets. By linking the theory of (exo)planet formation and evolution to all relevant observations, this meeting aims at a step forward towards a comprehensive understanding the diversity of exoplanets. The meeting consists of a series of oral and poster presentations, through which the participants will present their current research progresses, identify the challenges as observations confront theory, and discuss the plans for future developments. As a session of the Asia Oceania Geosciences Society (AOGS) in 2024, this meeting also aims to foster regional interactions and collaborations in the post-covid era.

### Confirmed Speakers:

Xue-Ning Bai (Tsinghua Univ.), Sun-Ju Chung (Korea Astronomy and Space Science Institute), Ruobing Dong (Univ. Victoria), Subo Dong (Peking Univ.), Dong Lai (Cornell University/T.-D. Lee Institute, Shanghai), Man Hoi Lee (Univ. Hongkong), Min-Kai Lin (ASIAA), Gongjie Li (Georgia Tech), Kento Masuda (Osaka Univ.), Ji Wang (Ohio State Univ.), Songhu Wang (Indiana Univ.), Yapeng Zhang (Caltech) and **more to follow**

### Important dates:

abstract submission deadline: **Jan 02, 2024**

### How to submit an abstract:

Go to the conference website:

<https://www.asiaoceania.org/aogs2024/public.asp?page=home.asp>

Register/login your Management and Review of Submissions (MARS) account, then submit your abstract to the Planetary Sciences section 15 (PS15): “Exoplanets: Observations Confront Theory”

**Scientific Organizing Committee:**

Ji-Wei Xie (Nanjing University, China)

Fei Dai (Caltech, United States)

Ing-Guey Jiang (National Tsing Hua University, Taiwan)

Chung-Uk Lee (Korea Astronomy and Space Science Institute, Korea, South)