

The workshop on stellar activity and exoplanets

Kunming, China, November 27-30, 2023

Announcement

Stellar magnetic activity and exoplanets are currently among the most promising research topics in modern astronomy. The exoplanets and their host stars are always closely intertwined with each other during their lifetimes and therefore also during the processes of planet detection and characterization.

Although observational evidences show that magnetic field almost exists in all of stellar evolutionary stages, the knowledge on its origin and evolution is still quite poor due to lack of enough accumulation for relative observational clues. Thus, the magnetic field still cannot be considered in a proper way in modern stellar structure and evolution theory. On the other hand, exoplanet science is developing very fast in the field of astronomy, it is a focus to search for exoplanets in the habitable zones. However, the magnetic activity of host stars in planetary systems can largely affect the habitability of exoplanets, especially for the habitable exoplanets surrounding M-type dwarfs. For such systems, super flares and/or coronal mass ejections of the host stars can leave significant impacts on atmosphere of the exoplanets. In this workshop, we will bring the researchers working in these two research topics together to discuss the present status and near future developments of stellar activity and exoplanet research, and seek the possible collaboration opportunities.

Sponsors: Yunnan Observatories & Key laboratory for the structure and evolution of the celestial objects, Chinese Academy of Sciences; Sino-German Center for Research Promotion

Date: November 27-30, 2023

Venue: Kunming, Yunnan Province, China

Participants: up to 30 persons

Registration fee: free

The program

- November 27:** Registration
- November 28:** Stellar activity (1)
Stellar activity (2)
Exoplanets (1)
- November 29:** Exoplanets (2)
Relative topics
- November 30:** Departure

Scientific Organizing Committee (SOC)

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Local Organizing Committee (LOC)

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