

Collaboration Workshop on Cosmology and Galaxy Formation

Thursday, June 22, 2023

Simulation & inference: constrained simulation (9:00 AM - 10:25 AM)

-Conveners: Hong Guo

| time | [id] title | presenter |
|----------|---|------------------|
| 9:00 AM | [29] Reconstructing and stacking, a promising way to study galaxy formation and evolution | Prof. MO, Houjun |
| 9:25 AM | [6] Connection between SDSS galaxies and ELUCID subhalos in the eye of machine learning | XU, Xiaoju |
| 9:45 AM | [3] Using Constrained Hydro Simulations to Explore the Gas Properties of the Cosmic Web | LI, Renjie |
| 10:05 AM | [5] Differentiable Cosmological Simulation with Adjoint Method | LI, Yin |

Simulation & inference: Machine learning (10:45 AM - 12:05 PM)

-Conveners: Yin Li

| time | [id] title | presenter |
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| 10:45 AM | [1] Analyzing the large-scale structure of the Universe with the assistance of machine learning techniques | □, □□ |
| 11:05 AM | [30] DarkAI: Mapping the large-scale density field of dark matter using AI | SHI, Feng |
| 11:25 AM | [7] Estimation of photo-z probability density functions via deep learning with statistical basis | LIN, Qiufan |
| 11:45 AM | [50] Relating galaxies across different redshift to study galaxy evolution | WANG, Kai |