Session Program

28 October 2026 to 1 November 2026

The 7th Joint Workshop on the Standard Model and Beyond□□□□□□□□□□□□□□□□□□

Day 3 Talks

Saturday 31 October

09:00

Day 3 Talks: Morning Session I

Session |
Location: Nanjing Normal University (Xianlin Campus), J6 Concert Hall, Guangyue Building, Nanjing Normal University (Xianlin Campus), Nanjing, China |
Convener: Jinmian Li

09:00–09:25 **Direct Multimodel Dark Matter Search Using O4a Data from LVK**

Speaker
Yue Zhao

09:25–09:50
Parton spin correlations and CP properties in Higgs boson decay at future lepton colliders

Speaker
Ying-Ying Li

09:50–10:15 **Late-time Vacuum Decay and its Cosmological Implications**

Speaker
Sida Lu

10:15

10:45

Day 3 Talks: Morning Session II

Session |
Location: Nanjing Normal University (Xianlin Campus), J6 Concert Hall, Guangyue Building, Nanjing Normal University (Xianlin Campus), Nanjing, China |
Convener: Peter Athron

10:45–11:10
Glueball Dark Matter: From Thermal Resummation to Gravitational Waves and Direct Detection

Speaker
Zhiwei Wang

11:10–11:35 **Dark Supercooled Phase Transition and the Origin of Matter**

Speaker
Yuichiro Nakai

11:35–12:00
Neutrinos in Stellar Evolution and Explosions: From Microphysics to Astrophysical Signatures

Speaker
Gang Guo

12:00

14:00

Day 3 Talks: Afternoon Session I

Session | **Location:** Nanjing Normal University (Xianlin Campus), J6 Concert Hall, Guangyue Building |
Convener: Yu Zhang

14:00–14:25
Measuring the Trilinear Higgs Self-Coupling at Multi-TeV Muon Colliders with Machine Learning

Speaker
Soojin Lee

14:25–14:50 **AI for High Energy Phenomenology - What’s next?**

Speaker
Tianji Cai

14:50–15:15
AI-Assisted Studies of Cosmological Phase Transitions in New Physics Models

Speaker
Yang Zhang

15:15–15:40
Constraining Axion and ALP Interactions in Chiral Effective Field Theory

Speaker
Zhi-Hui Guo

15:40

16:10

Day 3 Talks: Afternoon Session II

Session | **Location:** Nanjing Normal University (Xianlin Campus), J6 Concert Hall, Guangyue Building | **Convener:** Tzu-Chiang Yuan

16:10–16:35 **Supernova constraints on millicharged particles and LFV axions**

Speaker
Zuowei Liu

16:35–17:00 **Revisiting supernova limits on dark gauge bosons**

Speaker
Yongchao Zhang

17:00–17:25
Baryon-number-violating nucleon decays in the landscape of effective field theory

Speaker
Xiao-Dong Ma

17:25