

Session Program

29 October 2023 to 2 November 2023

**Symposium on Frontiers of Underground
Physics**

Plenary session

Chengdu CYNN Hotel
Chengdu, China

Monday 30 October

09:30

Plenary session

Session | **Location:** Chengdu CYNN Hotel, Chengdu, China | **Convener:** Prof. Qian Yue

09:30–10:00

Review of underground laboratories worldwide

Speaker

Prof. Aldo Ianni

10:30

10:00–10:30

Status of CJPL and DURF

Speaker

Prof. Hao Ma

11:00

Plenary session

Session | **Location:** Chengdu CYNN Hotel, Chengdu, China | **Convener:** Prof. Henry Tsz-King Wong

11:00–11:30

Status of Korean underground laboratory and AMoRE experiment

Speaker

Prof. Yeongduk Kim

11:30–12:00

DUNE: The Deep Underground Neutrino Experiment

Speaker

Prof. Kam-Biu Luk

12:00–12:30

Hyper-Kamiokande: Challenges in Precision Neutrino Physics

Speaker

Prof. Patrick de Perio

12:30

14:00

Plenary session

Session | **Location:** Chengdu CYNN Hotel, Chengdu, China | **Convener:** Prof. Shun Zhou

14:00–14:30

JUNA investigation of star evolution in deep underground laboratory

Speaker

Prof. Weiping Liu

14:30–15:00

Status and Physics of JUNO

Speaker

Prof. Yufeng Li

15:00–15:30

Neutrino Nucleus Elastic Scattering with sub-keV germanium detectors at the Kuo-Sheng Reactor Neutrino Laboratory

Speaker

Prof. Henry Wong

15:30–16:00

In Vivo Measurement of Trace Level Internal Radioactivity in a Living Subject Under an Ultra Low Background Enabled by CJPL

16:00

Speaker

Prof. Yuanyuan LIU

16:30

Plenary session**Session** | **Location:** Chengdu CYNN Hotel, Chengdu, China | **Convener:** Prof. Kaixuan Ni

16:30–17:00

Connecting dark matter direct and indirect searches**Speaker**

Prof. Yu-Feng Zhou

17:00–17:30

Recent developments on searching for light and ultralight dark matter**Speaker**

Prof. Haipeng An

17:30–18:00

Status of the SuperCDMS SNOLAB experiment**Speaker**

Dr Yan Liu

18:00–18:30

Recent status and prospects of CDEX dark matter search at CJPL**Speaker**

Dr Litao Yang

18:30

Tuesday 31 October

09:00

Plenary session

Session | **Location:** Chengdu CYNN Hotel, Chengdu, China | **Convener:** Prof. Fei Gao

09:00–09:30 **The LUX-ZEPLIN Dark Matter Experiment**

Speaker

Prof. Theresa Fruth

09:30–10:00 **Direct Dark Matter Search with XENON and DARWIN**

Speaker

Prof. Shingo Kazama

10:00–10:30 **PandaX-4T Experiment: Dark Matter and Solar Neutrinos Searches**

Speaker

Prof. Qing Lin

10:30

11:00

Plenary session

Session | **Location:** Chengdu CYNN Hotel, Chengdu, China | **Convener:** Dr Shengchao Li

11:00–11:30 **Light Dark Matter Searches with Liquid Xenon**

Speaker

Prof. Kaixuan Ni

11:30–12:00 **The DarkSide Project**

Speaker

Prof. Yi Wang

12:00–12:30 **Light Dark Matter Detection at Kamioka Underground Laboratory**

Speaker

Prof. Suerfu Burkhan

12:30

14:00

Plenary session

Session | **Location:** Chengdu CYNN Hotel, Chengdu, China | **Convener:** Prof. Kai Chen

14:00–14:30

Hunting for Low-mass particle dark matter - some naive and personal thoughts

Speaker

Prof. Junhui Liao

14:30–15:00

Pulsar Polarization Array - A New Methodology for Astroparticle Physics

Speaker

Prof. Tao Liu

15:00–15:30 **R&D Progress of Jinping Neutrino Experiment**

Speaker

Prof. Zhe Wang

16:00

15:30–16:00

Helicity property of relic neutrinos and implications on their detection

Speaker

Prof. Jen-Chieh Peng

16:30

Plenary session

Session | **Location:** Chengdu CYNN Hotel, Chengdu, China | **Convener:** Prof. Yufeng Li

16:30–17:00

Exploring the Majorana Nature of Massive Neutrinos

Speaker

Prof. Shun Zhou

17:00–17:30

Researches of the 0vbb NME and the intermediate states

Speaker

Prof. Chunlin Bai

17:30–18:00

Projections of Discovery Potentials of Neutrinoless Double Beta Decay Experiments

Speaker

Dr Hau-Bin Li

18:00–18:30

JUNO-0vbb

Speaker

Prof. Gaosong Li

18:30

Wednesday 1 November

09:00

Plenary session

Session | Location: Chengdu CYNN Hotel, Chengdu, China | Convener: Prof. Hao Ma

09:00–09:30 N DEx experiment

Speaker
Prof. Hao Qiu

09:30–10:00 PandaX-4T experiment: Double-weak decays

Speaker
Prof. Shaobo Wang

10:00–10:30 Overview of the nEXO experiment

Speaker
Dr Hanwen Wang

10:30

11:00

Plenary session

Session | Location: Chengdu CYNN Hotel, Chengdu, China | Convener: Prof. Shukai Liu

11:00–11:30 CUPID-China experiment

Speaker
Dr Mingxuan Xue

11:30–12:00 LEGEND: The Road Onward Inverted Mass Ordering Region

Speaker
Prof. Aobo Li

12:00–12:30 CDEX-300v program for Ge-76 neutrinoless double beta decay search

Speaker
Dr Li Wang

12:30–12:40 Summary and ending the symposium

Speaker
Prof. Qian Yue

12:40