

**2024 Beijing dark matter  
symposium and the 4th BNU  
dark matter workshop**

**Report of Contributions**

Contribution ID: 44

Type: **not specified**

## CDEX

*Tuesday, 17 December 2024 09:00 (35 minutes)*

**Presenter:** Prof. 岳, 骞 (清华大学)

Contribution ID: 45

Type: **not specified**

## PandaX

*Tuesday, 17 December 2024 09:35 (35 minutes)*

**Presenter:** Prof. 韩, 柯 (上海交通大学)

Contribution ID: 46

Type: **not specified**

## XENONnT

*Tuesday, 17 December 2024 10:10 (35 minutes)*

**Presenter:** Prof. 叶, 靖强 ( 香港中文大学 (深圳) )

Contribution ID: 47

Type: **not specified**

## 太极简介

*Tuesday, 17 December 2024 11:05 (30 minutes)*

**Presenter:** Prof. 罗, 子人 (中科院力学所)

Contribution ID: 48

Type: **not specified**

## 第一性原理计算暗物质探测

*Tuesday, 17 December 2024 11:35 (30 minutes)*

**Presenter:** Prof. 莫, 崇杰 (计算中心)

Contribution ID: 49

Type: **not specified**

## 自旋探测

*Tuesday, 17 December 2024 12:05 (30 minutes)*

**Presenter:** Prof. 张, 博

Contribution ID: 50

Type: **not specified**

## **dark matter detection at LHAASO**

*Tuesday, 17 December 2024 14:00 (30 minutes)*

**Presenter:** Prof. 毕, 效军 (高能所)



Contribution ID: 51

Type: **not specified**

## **Non-canonical ALP Search in High-Intensity Physics**

*Tuesday, 17 December 2024 14:30 (25 minutes)*

**Presenter:** Prof. 李, 佟

Contribution ID: 52

Type: **not specified**

## Some analyses of dark glueball from lattice

*Tuesday, 17 December 2024 14:55 (25 minutes)*

**Presenter:** Dr 王, 伟 (上海交通大学)

Contribution ID: 53

Type: **not specified**

## Ultralight dark matter and its detection

*Wednesday, 18 December 2024 08:30 (25 minutes)*

**Presenter:** Prof. 刘, 佳

Contribution ID: 54

Type: **not specified**

## **Fermionic Absorption Dark Matter and Neutrinos**

*Wednesday, 18 December 2024 08:55 (25 minutes)*

**Presenter:** Prof. 葛, 韶锋 (李政道研究所)

Contribution ID: 55

Type: **not specified**

## **New dark matter search channels at electron colliders**

*Wednesday, 18 December 2024 09:20 (25 minutes)*

**Presenter:** Prof. 刘, 佐伟 (南京大学)

Contribution ID: 56

Type: **not specified**

## **Dark QCD footprints beside QCD phase transition**

*Wednesday, 18 December 2024 09:45 (25 minutes)*

**Presenter:** Prof. MATSUZAKI, Shinya

Contribution ID: 57

Type: **not specified**

## 面向射频波段引力波和暗物质探测应用的超导量子探测器及其研究进展

*Wednesday, 18 December 2024 10:35 (25 minutes)*

**Presenter:** Prof. 韦, 联福 (西南交通大学)

Contribution ID: 58

Type: **not specified**

## **The Right-Handed Slepton Bulk Region for Dark Matter in Generalized No-scale F-SU(5) with Effective Super-Natural Supersymmetry**

*Wednesday, 18 December 2024 11:00 (25 minutes)*

**Presenter:** Prof. 李, 田军 (河南师范大学)



Contribution ID: 59

Type: **not specified**

## Recent progress of Dark SHINE R&D

*Wednesday, 18 December 2024 12:15 (20 minutes)*

**Presenter:** Dr 袁, 睿 (上海交通大学)

Contribution ID: 60

Type: **not specified**

## **Dark photon constraints from APEX cavity halo scope experiment**

*Wednesday, 18 December 2024 11:25 (25 minutes)*

**Presenter:** Prof. HOUSTON, Nick (北京工业大学)

Contribution ID: **61**

Type: **not specified**

## **Dark Matter Detection with LIGO and Taiji/Tianqin/LISA**

*Wednesday, 18 December 2024 14:00 (25 minutes)*

**Presenter:** Prof. 郭, 怀珂 (国科大)

Contribution ID: 62

Type: **not specified**

## **Dark matter brake and dark matter flip**

*Wednesday, 18 December 2024 14:25 (25 minutes)*

**Presenter:** Prof. 王, 少江 (国科大)

Contribution ID: 63

Type: **not specified**

## Mapping the Dark Universe with astronomical observations

*Wednesday, 18 December 2024 14:50 (25 minutes)*

**Presenter:** Prof. 李, 然 (北京师范大学)

Contribution ID: 64

Type: **not specified**

## **Impact of Baryons on the Signatures of Self-Interacting Dark Matter Halos**

*Wednesday, 18 December 2024 15:15 (25 minutes)*

**Presenter:** Prof. 杨, 大能

Contribution ID: 65

Type: **not specified**

## **Constraints on Axion-like particles from the observation of Galactic Center**

*Thursday, 19 December 2024 14:50 (20 minutes)*

**Presenter:** 朱, 本阳 (紫金山天文台)

Contribution ID: 66

Type: **not specified**

## **Dark star equation of states and Dark I-Love-Q**

*Wednesday, 18 December 2024 16:55 (25 minutes)*

**Presenter:** Prof. 张, 弘



Contribution ID: 67

Type: **not specified**

## **Probing Dark Matter with Gravitational-Wave Detectors in Space**

*Wednesday, 18 December 2024 16:30 (25 minutes)*

**Presenter:** Prof. 汤, 勇 (国科大)

Contribution ID: 68

Type: **not specified**

## **Constraining dark matter properties from the survival of neutron star**

*Wednesday, 18 December 2024 17:45 (25 minutes)*

**Presenter:** ARVIND KUMAR MISHRA (NNUC)

Contribution ID: 69

Type: **not specified**

## **Moon as a gravitational wave detector**

*Wednesday, 18 December 2024 18:10 (25 minutes)*

**Presenter:** 陈, 弦

Contribution ID: 70

Type: **not specified**

## 基于抗磁悬浮的精密力测量技术及其应用

*Thursday, 19 December 2024 08:30 (25 minutes)*

**Presenter:** 黄, 璞 (南京大学)

Contribution ID: 71

Type: **not specified**

## 超高分辨率超导弱力测量简介

*Thursday, 19 December 2024 08:55 (25 minutes)*

**Presenter:** 边, 星 (中科院力学所)

Contribution ID: 72

Type: **not specified**

## **Searching for ultralight dark matter by amplifying weak magnetic field with quantum Zeno effect**

*Thursday, 19 December 2024 09:20 (25 minutes)*

**Presenter:** 艾, 清

Contribution ID: 73

Type: **not specified**

## 面向 1Hz 附近引力波探测的超导磁悬浮激光干涉仪

*Thursday, 19 December 2024 09:45 (25 minutes)*

**Presenter:** 郑, 昊

Contribution ID: 74

Type: **not specified**

## 分子精密谱测量

*Thursday, 19 December 2024 10:30 (25 minutes)*

**Presenter:** Prof. 程, 存峰



Contribution ID: 75

Type: **not specified**

## **Anti-ferromagnets for dark matter detection**

*Thursday, 19 December 2024 11:20 (25 minutes)*

**Presenter:** PAVASKAR, Shashin Padmanabhan

Contribution ID: 76

Type: **not specified**

## **Dark Photon Dark Matter Radio Signal from the Milky Way Electron Density**

*Thursday, 19 December 2024 10:55 (25 minutes)*

**Presenter:** ARZA, Ariel

Contribution ID: 77

Type: **not specified**

## **Novel probes of dark matter with gravitational waves**

*Thursday, 19 December 2024 11:45 (25 minutes)*

**Presenter:** Dr MILLER, Andrew

Contribution ID: 78

Type: **not specified**

## Cosmological Signatures of new particles

*Thursday, 19 December 2024 14:00 (25 minutes)*

**Presenter:** Prof. 周, 思益 (重庆大学)

Contribution ID: 79

Type: **not specified**

## The Realistic Scattering of Puffy Dark Matter

*Thursday, 19 December 2024 14:25 (25 minutes)*

**Presenter:** Prof. 王, 雯宇 (北工大)

Contribution ID: **80**

Type: **not specified**

## **General WIMP Direct detections**

*Wednesday, 18 December 2024 17:20 (25 minutes)*

**Presenter:** 陈, 清

Contribution ID: **81**

Type: **not specified**

## **Wide binary evaporation by solitons and minicluster halos**

*Thursday, 19 December 2024 15:10 (20 minutes)*

**Presenter:** 王, 子航 (中科院高能所)

Contribution ID: 82

Type: **not specified**

## 暗物质半导体探测器中的 Migdal 效应与介质效应

*Thursday, 19 December 2024 16:15 (25 minutes)*

**Presenter:** Prof. 梁, 正良 (北京化工大学)



Contribution ID: 83

Type: **not specified**

## 基于人造原子系综低激发概率检测的射频波段暗光子探测

*Thursday, 19 December 2024 16:40 (20 minutes)*

**Presenter:** 和, 穗荣 (西南交通大学)

Contribution ID: **84**

Type: **not specified**

# **Machine Learning Constraints on dark matter from 21cm signals**

*Thursday, 19 December 2024 17:00 (25 minutes)*

**Presenter:** Prof. KADOTA, Kenji

Contribution ID: 85

Type: **not specified**

## **Gravitational waves from inflation and reheating**

*Thursday, 19 December 2024 12:10 (25 minutes)*

**Presenter:** TOKAREVA, Anna

Contribution ID: 86

Type: **not specified**

## 总结致谢

*Thursday, 19 December 2024 17:45 (10 minutes)*

**Presenter:** 晁, 伟 (北京师范大学)

Contribution ID: 87

Type: **not specified**

## **Dark matter signatures from the possible faintest dwarf satellite galaxy Ursa Major III**

*Tuesday, 17 December 2024 15:20 (25 minutes)*

**Presenter:** Prof. 殷, 鹏飞 (高能物理研究所)

Contribution ID: 88

Type: **not specified**

## (科普) 在月球背面探寻宇宙黑暗时代

*Tuesday, 17 December 2024 16:00 (40 minutes)*

**Presenter:** Prof. 陈, 学雷

Contribution ID: 89

Type: **not specified**

## (科普) 薛定谔猫能听见引力波吗

*Tuesday, 17 December 2024 16:40 (40 minutes)*

**Presenter:** Prof. 尹, 璋琦 (北理工)

Contribution ID: 90

Type: **not specified**

**Gong show& 晚宴; Gong Show 顺序名单: 1. 董婧;  
2. Xiaolin Ma; 3. 刘齐斌; 4. YueWei Wen; 5. 虞成业; 6.  
代昌杰; 7. 王越; 8. 王典为; 9. 张瑞咖; 10. 王元泓; 11.  
王欣; 12. Yuanlin Gong; 13. 章怀瑾; 14. 聂昊明; 15.  
雷润雨; 16 王永华。**

*Tuesday, 17 December 2024 17:20 (3h 40m)*



Contribution ID: 91

Type: **not specified**

## **Search for BSM T-odd mechanisms in $pe$ scattering with a polarized hydrogen target**

**Presenter:** Prof. 勾, 伯兴

Contribution ID: 92

Type: **not specified**

## **Search for BSM T-odd mechanisms in $pe$ scattering with a polarized hydrogen target**

*Wednesday, 18 December 2024 11:50 (25 minutes)*

**Presenter:** Prof. 勾, 伯兴

Contribution ID: 93

Type: **not specified**

## **Interpreting the extremely diffuse stellar distribution of Nube galaxy through fuzzy dark matter**

*Thursday, 19 December 2024 17:25 (20 minutes)*

**Presenter:** 杨, 玉明 (高能所)

Contribution ID: 94

Type: **not specified**

# Probing Fundamental Physics via Supermassive Black Hole Observations

*Wednesday, 18 December 2024 15:40 (25 minutes)*

**Presenter:** 陈, 一帆 (玻尔研究所)

Contribution ID: 95

Type: **not specified**

## **Tidal Formation of Dark Matter-Deficient Diffuse Galaxies by Self-Interacting Dark Matter**

*Thursday, 19 December 2024 15:30 (20 minutes)*

**Presenter:** Dr ZHANG, Zhao-chen (高能所)