

桌面上的粒子物理 (Particle Physics on Tabletops, PPTT)

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome and Warm up

Saturday, 9 November 2024 09:00 (15 minutes)

Primary author: LIU, Jianglei (Shanghai Jiao Tong University)

Co-author: WEN, Liangjian

Presenters: LIU, Jianglei (Shanghai Jiao Tong University); WEN, Liangjian

Session Classification: Opening session

Contribution ID: 22

Type: **not specified**

Cryogenic sensors development and application

Saturday, 9 November 2024 09:15 (25 minutes)

Primary author: YAN, Daikang (IHEP)

Presenter: YAN, Daikang (IHEP)

Session Classification: Session

Contribution ID: 23

Type: **not specified**

Research Progress on Time-Division Multiplexed Readout Technology Based on Superconducting Quantum Interference Device

Saturday, 9 November 2024 09:40 (25 minutes)

Primary author: GAO, Bo (SJTU)

Presenter: GAO, Bo (SJTU)

Session Classification: Session

Contribution ID: 24

Type: **not specified**

An update on plasma wakefield accelerator

Saturday, 9 November 2024 10:30 (25 minutes)

Primary author: LU, Wei (THU)

Presenter: LU, Wei (THU)

Session Classification: Session

Contribution ID: 25

Type: **not specified**

Tabletop plasma accelerator based possible axion generation and detection schemes

Saturday, 9 November 2024 10:55 (25 minutes)

Primary author: CHEN, Min (SJTU)

Presenter: CHEN, Min (SJTU)

Session Classification: Session

Contribution ID: 26

Type: **not specified**

The Dark Photon Searches at the APEX and TASEH Experiments

Saturday, 9 November 2024 11:20 (25 minutes)

Primary author: LI, Tianjun (ITP-CAS & HNNU)

Presenter: LI, Tianjun (ITP-CAS & HNNU)

Session Classification: Session

Contribution ID: 27

Type: **not specified**

SRF Cavity Searches for Dark Photon

Saturday, 9 November 2024 11:45 (25 minutes)

Primary author: SHU, Jing (PKU)

Presenter: SHU, Jing (PKU)

Session Classification: Session

Contribution ID: 28

Type: **not specified**

暗物质半导体探测器中的 Migdal 效应与介质效应

Saturday, 9 November 2024 13:40 (25 minutes)

Primary author: LIANG, Zhengliang (BUCT)

Presenter: LIANG, Zhengliang (BUCT)

Session Classification: Session

Contribution ID: 29

Type: **not specified**

Novel Detection of Light Dark Matter with Qubit Calorimeter

Saturday, 9 November 2024 14:05 (25 minutes)

Primary author: SONG, Ningqiang (ITP-CAS)

Presenter: SONG, Ningqiang (ITP-CAS)

Session Classification: Session

Contribution ID: 30

Type: **not specified**

Probing Neutrinos Properties with Atomic Radiative Emissions

Saturday, 9 November 2024 14:30 (25 minutes)

Primary author: Prof. GE, Shaofeng (SJTU)

Presenter: Prof. GE, Shaofeng (SJTU)

Session Classification: Session

Contribution ID: 31

Type: **not specified**

Prospects of measuring recoil force from neutrino emission using micromechanical resonators

Saturday, 9 November 2024 14:55 (25 minutes)

Primary author: Dr TITOV, Oleg (SJTU)

Presenter: Dr TITOV, Oleg (SJTU)

Session Classification: Session

Contribution ID: 32

Type: **not specified**

Searching for exotic spin-dependent interactions with solid-state spin sensors

Saturday, 9 November 2024 16:00 (25 minutes)

Primary author: RONG, Xing (USTC)

Presenter: RONG, Xing (USTC)

Session Classification: Session

Contribution ID: 33

Type: **not specified**

Search for spin dependent exotic interactions with precision force measurements

Saturday, 9 November 2024 16:25 (25 minutes)

Primary author: LUO, Pengshun (HUST)

Presenter: LUO, Pengshun (HUST)

Session Classification: Session

Contribution ID: 34

Type: **not specified**

引力波和轴子密切相关：产生及探测机制

Saturday, 9 November 2024 16:50 (25 minutes)

Primary author: Prof. SUN, Sichun (BIT)

Presenter: Prof. SUN, Sichun (BIT)

Session Classification: Session

Contribution ID: 35

Type: **not specified**

PKMu 缪子散射探测实验及新物理探索

Saturday, 9 November 2024 17:15 (25 minutes)

Primary author: LI, Qite (PKU)

Presenter: LI, Qite (PKU)

Session Classification: Session

Contribution ID: 36

Type: **not specified**

Optical Lattice Clocks in Interdisciplinary Research of Fundamental Physics and Astrophysics

Sunday, 10 November 2024 09:00 (25 minutes)

Primary author: CHEN, Yuao (USTC)

Presenter: CHEN, Yuao (USTC)

Session Classification: Session

Contribution ID: 37

Type: **not specified**

Measurement of the permanent electric dipole moment (EDM) and searching for CP violation

Sunday, 10 November 2024 09:25 (25 minutes)

Primary author: XIA, Tian (USTC)

Presenter: XIA, Tian (USTC)

Session Classification: Session

Contribution ID: **38**

Type: **not specified**

Atomic clocks and fundamental physics

Sunday, 10 November 2024 09:50 (25 minutes)

Primary author: ZHANG, Xibo (PKU)

Presenter: ZHANG, Xibo (PKU)

Session Classification: Session

Contribution ID: 39

Type: **not specified**

Precision gravity experiments in laboratory

Sunday, 10 November 2024 10:30 (25 minutes)

Primary author: YANG, Shanqing (SYSU)

Presenter: YANG, Shanqing (SYSU)

Session Classification: Session

Contribution ID: 40

Type: **not specified**

基于抗磁悬浮的精密力测量技术及其应用

Sunday, 10 November 2024 10:55 (25 minutes)

Primary author: HUANG, Pu (NJU)

Presenter: HUANG, Pu (NJU)

Session Classification: Session

Contribution ID: 41

Type: **not specified**

Extension of Torsion Balance

Sunday, 10 November 2024 11:20 (25 minutes)

Primary author: SHENG, Jie (SJTU)

Presenter: SHENG, Jie (SJTU)

Session Classification: Session

Contribution ID: 42

Type: **not specified**

Discussion 议题: 明年 Xplorer 国际研讨会

Sunday, 10 November 2024 11:45 (45 minutes)

Primary author: LIU, Jianglei (Shanghai Jiao Tong University)

Co-author: WEN, Liangjian

Presenters: LIU, Jianglei (Shanghai Jiao Tong University); WEN, Liangjian

Session Classification: Discussion

Contribution ID: 43

Type: **not specified**

Spin-based quantum sensors for exotic physics searches

Saturday, 9 November 2024 15:35 (25 minutes)

Primary author: SU, Haowen (USTC)

Presenter: SU, Haowen (USTC)

Session Classification: Session