

# **NPG Workshop 2023**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Opening

*Saturday, 14 October 2023 09:00 (10 minutes)*

物理学院书记致辞

**Presenter:** Prof. 肖, 湘衡 (武汉大学)

Contribution ID: 3

Type: **not specified**

# Overview of new physics searches at BESIII

*Saturday, 14 October 2023 09:10 (30 minutes)*

**Presenter:** YOU, Zhengyun (Sun Yat-Sen University)

**Session Classification:** Section I

Contribution ID: 4

Type: **not specified**

## New physics at tau-charm factories

*Saturday, 14 October 2023 09:40 (30 minutes)*

**Presenter:** CALIBBI, Lorenzo (Nankai University)

**Session Classification:** Section I

Contribution ID: 5

Type: **not specified**

## Group photo and Coffee break

*Saturday, 14 October 2023 10:10 (20 minutes)*

Contribution ID: 6

Type: **not specified**

## Electroweak Fits and Higgs Physics

*Saturday, 14 October 2023 10:30 (30 minutes)*

**Presenter:** WU, Lei (Nanjing Normal University)

**Session Classification:** Section II

Contribution ID: 7

Type: **not specified**

## CP violation and leptogenesis

*Saturday, 14 October 2023 11:00 (30 minutes)*

**Presenter:** 韩, 成成 (Sun Yat-sen University)

**Session Classification:** Section II

Contribution ID: 8

Type: **not specified**

## Search for New Physics at Belle and Belle II

*Sunday, 15 October 2023 09:00 (30 minutes)*

**Presenter:** YAN, Wenbiao (University of Science and Technology of China)

**Session Classification:** Section I



Contribution ID: 9

Type: **not specified**

## New physics searches at LHCb

*Sunday, 15 October 2023 09:30 (30 minutes)*

**Presenter:** WANG, Jike (Wuhan University)

**Session Classification:** Section I

Contribution ID: 11

Type: **not specified**

# Heavy Neutrino Searches at Colliders

*Saturday, 14 October 2023 14:00 (30 minutes)*

**Presenter:** 王, 科臣 (武汉理工大学 (Wuhan University of Technology) )

**Session Classification:** Section III

Contribution ID: 12

Type: **not specified**

## Invisible decays at BESIII

*Saturday, 14 October 2023 15:00 (30 minutes)*

**Presenter:** JIANG, Peicheng (Peking University)

**Session Classification:** Section III

Contribution ID: 13

Type: **not specified**

# Effective field theory approach to physics beyond standard model

*Saturday, 14 October 2023 11:30 (30 minutes)*

**Presenter:** LIAO, Yi (South China Normal University)

**Session Classification:** Section II

Contribution ID: 15

Type: **not specified**

## **FCNC hadron decays with invisible singlet particles in light of recent data**

*Saturday, 14 October 2023 15:50 (30 minutes)*

**Presenter:** LI, Geng (Harbin Institute of Technology)

**Session Classification:** Section IV

Contribution ID: **16**

Type: **not specified**

## **Charmonium weak decay searches at BESIII**

*Saturday, 14 October 2023 16:20 (30 minutes)*

**Presenter:** SONG, Tianzi (Sun Yat-sen University)

**Session Classification:** Section IV

Contribution ID: 17

Type: **not specified**

## **Study of the $K_S \rightarrow \text{invisible}$ at BESIII (remote)**

*Saturday, 14 October 2023 16:50 (30 minutes)*

**Presenter:** DING, Xiaoxuan (Peking University)

**Session Classification:** Section IV

Contribution ID: **18**

Type: **not specified**

## **CP asymmetries in $\tau \rightarrow K_S \pi \nu$ decays**

*Sunday, 15 October 2023 10:50 (30 minutes)*

**Presenter:** LI, Xin-Qiang (Central China Normal University)

**Session Classification:** Section II



Contribution ID: **20**

Type: **not specified**

## Theory-Experiment Discussion

*Sunday, 15 October 2023 11:20 (30 minutes)*

**Session Classification:** Section II

Contribution ID: **21**

Type: **not specified**

## Search for new physics at STCF

*Sunday, 15 October 2023 10:20 (30 minutes)*

**Presenter:** ZHANG (USC), Yu (University of South China)

**Session Classification:** Section II

Contribution ID: 22

Type: **not specified**

## **Dark states with electromagnetic form factors at electron colliders**

*Sunday, 15 October 2023 14:00 (30 minutes)*

**Presenter:** ZHANG (HFUT), Yu (合肥工业大学)

**Session Classification:** Section III

Contribution ID: 23

Type: **not specified**

## Exotic searches at BESIII

*Sunday, 15 October 2023 15:00 (30 minutes)*

**Presenter:** JIANG, Houbing (Wuhan University)

**Session Classification:** Section III

Contribution ID: 25

Type: **not specified**

## Charged lepton flavor violation searches at BESIII

*Sunday, 15 October 2023 16:20 (30 minutes)*

**Presenter:** LI, Jingshu (Sun Yat-Sen (Zhongshan) University)

**Session Classification:** Section IV

Contribution ID: 26

Type: **not specified**

## Search for LNV processes at BESIII

*Sunday, 15 October 2023 16:50 (30 minutes)*

**Presenter:** LIU, Xueyin (Wuhan University)

**Session Classification:** Section IV

Contribution ID: 27

Type: **not specified**

## Search for Baryon Number Violation at BESIII

*Sunday, 15 October 2023 17:20 (30 minutes)*

**Presenter:** 车, 国荣 (南开大学)

**Session Classification:** Section IV

Contribution ID: 28

Type: **not specified**

## Conclusion and prospect of research on inclusive decay at BESIII

*Saturday, 14 October 2023 17:20 (30 minutes)*

**Presenter:** 肖, 栋 (兰州大学)

**Session Classification:** Section IV



Contribution ID: 29

Type: **not specified**

## Search for Baryon Number Violation Oscillation at BESIII

*Saturday, 14 October 2023 14:30 (30 minutes)*

**Presenter:** HAO (郝喜庆), Xiqing (HENNU)

**Session Classification:** Section III

Contribution ID: 30

Type: **not specified**

## **DarkSHINE ——a new initiative to search for light dark matter at SHINE facility**

*Sunday, 15 October 2023 14:30 (30 minutes)*

**Presenter:** 孙, 童 (高能所)

**Session Classification:** Section III

Contribution ID: **31**

Type: **not specified**

## Hyperon Electric Dipole Moment at BESIII

*Sunday, 15 October 2023 15:50 (30 minutes)*

**Presenter:** FU, Jinlin (University of Chinese Academy of Sciences)

**Session Classification:** Section IV

Contribution ID: **32**

Type: **not specified**

## Closure talk

*Sunday, 15 October 2023 17:50 (10 minutes)*

**Presenter:** WANG, Dayong (Peking University)

**Session Classification:** Section IV