

CUPID-China 2024

Report of Contributions

Contribution ID : 1

Type : **not specified**

Latest results from the CUORE experiment

The Cryogenic Underground Observatory for Rare Events (CUORE) is the first bolometric experiment searching for $0\nu\beta\beta$ decay that has successfully reached the one-tonne mass scale. The detector, located at the LNGS in Italy, consists of an array of 988 TeO_2 crystals arranged in a compact cylindrical structure of 19 towers. CUORE began its first physics data run in 2017 at a base temperature of about 10 mK and has been collecting data continuously since 2019, reaching a TeO_2 exposure of 2 tonne-year in spring 2023. This is the largest amount of data ever acquired with a solid state cryogenic detector, which allows for further improvement in the CUORE sensitivity to $0\nu\beta\beta$ decay in ^{130}Te . In this talk, we will present the new CUORE data release, based on the full available statistics and on new, significant enhancements of the data processing chain and high-level analysis.

Primary author(s) : Dr FU, Shihong (Fudan University)

Presenter(s) : Dr FU, Shihong (Fudan University)

Session Classification : Session 5

CUPID- ... / Report of Contributions



Contribution ID : 2

Type : **not specified**



Thursday, 22 August 2024 09:00 (15)

Session Classification : Session 1

Contribution ID : 3

Type : **not specified**

CJPL status

Thursday, 22 August 2024 09:15 (30)

Presenter(s) : ZENG, Zhi

Session Classification : Session 1



Contribution ID : 4

Type : **not specified**



Thursday, 22 August 2024 09:45 (25)

Presenter(s) : ☒, ☒

Session Classification : Session 1

Contribution ID : 5

Type : **not specified**

LMOXXXXXXXXXX

Thursday, 22 August 2024 10:10 (25)

Presenter(s) : PAN, Shangke

Session Classification : Session 1

Contribution ID : 6

Type : **not specified**

LMOXXICP-MSXXXX

Thursday, 22 August 2024 14:20 (25)

Presenter(s) : TANG, Xiaoxing

Session Classification : Session 3



Contribution ID : 7

Type : **not specified**



Thursday, 22 August 2024 10:55 (25)

Presenter(s) : JIANG, Xue

Session Classification : Session 2



Contribution ID : 8

Type : **not specified**



Thursday, 22 August 2024 14:00 (20)

Presenter(s) : ☒, ☒

Session Classification : Session 3

Contribution ID : 9

Type : **not specified**

NTD

Thursday, 22 August 2024 14:45 (20)

Presenter(s) : ZHAO, Kangkang

Session Classification : Session 3



Contribution ID : **10**

Type : **not specified**



Thursday, 22 August 2024 15:05 (20)

Presenter(s) : DUAN, Deyong

Session Classification : Session 3



Contribution ID : 11

Type : **not specified**



Friday, 23 August 2024 10:15 (20)

Presenter(s) : CAO, Jiaxuan

Session Classification : Session 5



Contribution ID : **12**

Type : **not specified**



Thursday, 22 August 2024 15:25 (20)

Presenter(s) : LI, Yi

Session Classification : Session 3

Contribution ID : 13

Type : **not specified**

TES R&D status for CUPID-China

Thursday, 22 August 2024 16:05 (25)

Presenter(s) : ZHANG, Jianjie

Session Classification : Session 4

Contribution ID : 15

Type : **not specified**

0vββAIMnTES

Thursday, 22 August 2024 16:50 (20)

Presenter(s) : ,

Session Classification : Session 4

Contribution ID : 16

Type : **not specified**

TES

Thursday, 22 August 2024 17:10 (25)

Presenter(s) : LI, Zhengwei

Session Classification : Session 4



Contribution ID : 17

Type : **not specified**



Thursday, 22 August 2024 18:00 (120)





Contribution ID : **18**

Type : **not specified**



Friday, 23 August 2024 09:00 (25)

Presenter(s) : , 

Session Classification : Session 5

Contribution ID : 19

Type : **not specified**

PandaXXXXXXXXXX

Friday, 23 August 2024 09:25 (30)

Presenter(s) : X, X

Session Classification : Session 5

Contribution ID : 20

Type : **not specified**

Latest results from the CUORE experiment

Friday, 23 August 2024 09:55 (20)

Presenter(s) : FU, Shihong

Session Classification : Session 5

Contribution ID : 21

Type : **not specified**

CUPID-China CUPID

Friday, 23 August 2024 10:55 (20)

Session Classification : Session 6

CUPID- ... / Report of Contributions



Contribution ID : 22

Type : **not specified**



Friday, 23 August 2024 11:15 (45)

Session Classification : Session 6



Contribution ID : 23

Type : **not specified**



Thursday, 22 August 2024 11:20 (40)

Session Classification : Session 2