

# 2024 Seoul Particle Theory Workshop



## Report of Contributions

Contribution ID: 1

Type: **not specified**

**TBA**

Contribution ID: 2

Type: **not specified**

## **New Isocurvature for axion DM**

*Wednesday 29 May 2024 10:00 (30 minutes)*

**Presenter:** GELLER, Michael (Tel Aviv University)

**Session Classification:** Morning Session

Contribution ID: 3

Type: **not specified**

## **Non-thermal heavy dark matter from a first-order phase transition**

*Wednesday 29 May 2024 10:30 (30 minutes)*

**Presenter:** Prof. LEE, Hyun Min (CAU - Chung-Ang University (KR))

**Session Classification:** Morning Session

Contribution ID: 4

Type: **not specified**

## **Constraining millicharged dark matter with gravitational positivity bounds**

*Wednesday 29 May 2024 11:30 (30 minutes)*

**Presenter:** KIM, Suro (KIAS)

**Session Classification:** Morning Session

Contribution ID: 5

Type: **not specified**

## **A quantum description of wave dark matter**

*Thursday 30 May 2024 10:00 (30 minutes)*

**Presenter:** RODD, Nicholas Llewellyn (CERN)

**Session Classification:** Morning Session

Contribution ID: 6

Type: **not specified**

## Revisiting Chiral Magnetic Effects and Axions

*Thursday 30 May 2024 10:30 (30 minutes)*

**Presenter:** HONG, Deog Ki (Pusan National University (KR))

**Session Classification:** Morning Session

Contribution ID: 7

Type: **not specified**

**TBA**

*Thursday 30 May 2024 11:30 (30 minutes)*

**Presenter:** PARK, Wanil (JBNU)

**Session Classification:** Morning Session



Contribution ID: 8

Type: **not specified**

**TBA**

*Friday 31 May 2024 09:30 (30 minutes)*

**Presenter:** SON, Minho

**Session Classification:** Morning Session

Contribution ID: 9

Type: **not specified**

**TBA**

*Friday 31 May 2024 10:00 (30 minutes)*

**Presenter:** VILLADORO, Giovanni (ICTP)

**Session Classification:** Morning Session

Contribution ID: **10**

Type: **not specified**

**TBA**

*Friday 31 May 2024 11:00 (30 minutes)*

**Presenter:** DELAUNAY, Cedric (LAPTh, CNRS)

**Session Classification:** Morning Session

Contribution ID: **11**

Type: **not specified**

**TBA**

*Wednesday 29 May 2024 14:00 (30 minutes)*

**Presenter:** SPRINGMANN, Konstantin Felix (Max-Planck-Institut für Physik (DE))

**Session Classification:** Afternoon Session

Contribution ID: 12

Type: **not specified**

## **BelleII excess & Muon g-2 illuminating Light DM with Higgs Portal**

*Wednesday 29 May 2024 14:30 (30 minutes)*

**Presenter:** Dr KIM, Jongkuk (Korea Institute for Advanced Study)

**Session Classification:** Afternoon Session

Contribution ID: 13

Type: **not specified**

**TBA**

*Wednesday 29 May 2024 15:30 (30 minutes)*

**Presenters:** Prof. PARK, Seong Chan (Yonsei University); PARK, Seongchan (Sungkyunkyan University (SKKU))

**Session Classification:** Afternoon Session

Contribution ID: 14

Type: **not specified**

**TBA**

*Wednesday 29 May 2024 16:00 (30 minutes)*

**Presenter:** RATZINGER, Wolfram (Weizmann Institute)

**Session Classification:** Afternoon Session

Contribution ID: 15

Type: **not specified**

## **Missing the Obvious? Fermiophobic Light Higgs through Diphoton Jets**

*Thursday 30 May 2024 14:00 (30 minutes)*

**Presenter:** Prof. SONG, Jeonghyeon (KNU)

**Session Classification:** Afternoon Session



Contribution ID: 16

Type: **not specified**

# **Axion dark matter from inflation-driven quantum phase transition**

*Thursday 30 May 2024 14:30 (30 minutes)*

**Presenter:** YU, Bingrong (Cornell University)

**Session Classification:** Afternoon Session

Contribution ID: 17

Type: **not specified**

## **Prospects of nuclear-coupled-dark-matter detection via correlation spectroscopy of $I_2^+$ and $Ca^+$**

*Thursday 30 May 2024 15:30 (30 minutes)*

**Presenter:** Dr MADGE PIMENTEL, Eric (Weizmann)

**Session Classification:** Afternoon Session

Contribution ID: **18**

Type: **not specified**

**TBA**

**Presenter:** KAWANA, kiyoharu

**Session Classification:** Afternoon Session

Contribution ID: 19

Type: **not specified**

## Confining Conformal Colliders

*Thursday 30 May 2024 16:00 (30 minutes)*

**Presenter:** ISMAIL, Ameen

**Session Classification:** Afternoon Session

Contribution ID: 20

Type: **not specified**

## Discussion (free without format)

*Saturday 1 June 2024 09:00 (2 hours)*

**Presenter:** Prof. PEREZ, Gilad (Weizmann)

**Session Classification:** Discussion

Contribution ID: 21

Type: **not specified**

## **Gauss-Bonnet Cosmology: Bounds from Gravitational Waves**

*Thursday 30 May 2024 16:30 (30 minutes)*

**Presenter:** VELLASCO-SEVILLA, Liliana

**Session Classification:** Afternoon Session