

Session Program

17-21 Dec 2018

Light Dark World International Forum 2018

Session

KAIST, Yang Seung-Taek Auditorium (2F), Building E9
291 Daehak-ro, Yuseong-gu, Daejeon, South Korea

Monday 17 December

09:30

Session: 1a

Session |

Location: KAIST, Yang Seung-Taek Auditorium (2F), Building E9, 291 Daehak-ro, Yuseong-gu, Daejeon, South Korea
|

Convener: Hye-Sung Lee

09:30–10:05

Double Beta Decay Experiments

Speaker

Yeongduk Kim

10:05–10:40

Science prospects and status of the JSNS2 Experiment

Speaker

Carsten Rott

10:40

11:10

Session: 1b

Session |

Location: KAIST, Yang Seung-Taek Auditorium (2F), Building E9, 291 Daehak-ro, Yuseong-gu, Daejeon, South Korea
|

Convener: Brian Batell

11:10–11:45

Long-range interactions in neutrino oscillations

Speaker

Sushant Raut

11:45–12:20

Probing new physics with atomic clocks

Speaker

Marianna Safronova

12:20

14:00

Session: 2a

Session |

Location: KAIST, Yang Seung-Taek Auditorium (2F), Building E9, 291 Daehak-ro, Yuseong-gu, Daejeon, South Korea
|

Convener: Patrick deNiverville

14:00–14:35

The WIMP is Dead! Long Live the WIMP!

Speaker

Dan Hooper

14:35–15:10

Cosmological Probes of Dark Matter Physics

Speaker

Kimberly Boddy

15:10–15:45

COSINE-100 dark matter search experiment

Speaker

Hyun Su Lee

15:45

16:10

17:55

Session: 2b

Session |
Location: KAIST, Yang Seung-Taek Auditorium (2F), Building E9, 291 Daehak-ro, Yuseong-gu, Daejeon, South Korea
|
Convener: Ahmed Ismail

16:10-16:45	Sharp spectral features from light dark matter decay
Speaker Alejandro Ibarra	
16:45-17:20	Timing information for Long-Lived Particle and light dark matter
Speaker Seong Chan Park	
17:20-17:55	Imprints of reheating on low-energy physics
Speaker Hyun Min Lee	

Tuesday 18 December

09:30

Session: 3a

Session |

Location: KAIST, Yang Seung-Taek Auditorium (2F), Building E9, 291 Daehak-ro, Yuseong-gu, Daejeon, South Korea
|

Convener: Pyungwon Ko

09:30–10:05

A comprehensive approach to axion research

Speaker

Yannis Semertzidis

10:05–10:40

A Limit on Axion from the Cooling Neutron Star in Cassiopeia A

Speaker

Koichi Hamaguchi

10:40

11:10

Session: 3b

Session |

Location: KAIST, Yang Seung-Taek Auditorium (2F), Building E9, 291 Daehak-ro, Yuseong-gu, Daejeon, South Korea
|

Convener: Prof. Marianna Safronova

11:10–11:45

Flavorful axion phenomenology

Speaker

Eung Jin Chun

11:45–12:20

Low scale inflation and constraints on axions

Speaker

Wen Yin

12:20

14:00

Session: 4a

Session |

Location: KAIST, Yang Seung-Taek Auditorium (2F), Building E9, 291 Daehak-ro, Yuseong-gu, Daejeon, South Korea
|

Convener: Dan Hooper

14:00–14:35

Dark Matter models at the SeaQuest experiment

Speaker

Stefania Gori

14:35–15:10

The NA64 Experiment at the CERN SPS

Speaker

Dipanwita Banerjee

15:10–15:45

The dark axion portal at the intensity frontier

Speaker

Patrick deNiverville

15:45

16:10

Session: 4b

Session |

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|

Convener: Eung Jin Chun

16:10-16:45

Light hadrophilic scalars

Speaker

Ahmed Ismail

16:45-17:20

The status of flavor anomalies

Speaker

Wolfgang Altmannshofer

17:20

Wednesday 19 December

09:30

Session: 5a

Session |
Location: KAIST, Yang Seung-Taek Auditorium (2F), Building E9, 291 Daehak-ro, Yuseong-gu, Daejeon, South Korea
|
Convener: Stefania Gori

09:30-10:05

Particle physics models for interacting dark matter-dark radiation and tensions in H_0 and σ_8

Speaker
Pyungwon Ko

10:05-10:40

Primordial black holes and small-scale constraints

Speaker
Jinn-Ouk Gong

10:40

11:10

Session: 5b

Session |
Location: KAIST, Yang Seung-Taek Auditorium (2F), Building E9, 291 Daehak-ro, Yuseong-gu, Daejeon, South Korea
|
Convener: Alejandro Ibarra

11:10-11:45

Light dark matter from topological defects

Speaker
Andrew Long

11:45-12:20

Direct Detection of sub-GeV Dark Matter

Speaker
Tien-Tien Yu

12:20