

**CERN-EPFL-Korea Theory
Institute "New Physics at the
Intensity Frontier"**

Report of Contributions

Contribution ID: 1

Type: **not specified**

TH Institute Colloquium

Contribution ID: 2

Type: **not specified**

Light dark matter

Wednesday 22 February 2017 14:00 (1 hour)

Presenter: Prof. POSPELOV, Maxim

Contribution ID: 3

Type: **not specified**

The 8Be Anomaly and New Physics

Presenter: FENG, Jonathan Lee (University of California Irvine (US))

Session Classification: Discussion session

Contribution ID: 4

Type: **not specified**

Role of dark Higgs boson in particle physics and cosmology

Monday 20 February 2017 14:00 (45 minutes)

Presenter: KO, Pyungwon (Korea Inst. for Advanced Study (KIAS))

Contribution ID: 5

Type: **not specified**

News about heavy neutral leptons

Wednesday 1 March 2017 14:00 (1 hour)

Presenter: RUCHAYSKIY, Oleg (University of Copenhagen (DK))

Contribution ID: 6

Type: **not specified**

SHiP experiment at CERN

Monday 27 February 2017 11:45 (45 minutes)

Presenter: SERRA, Nicola (Universitaet Zuerich (CH))

Contribution ID: 7

Type: **not specified**

Off-axis detectors for light dark matter at proton fixed target experiments

Monday 27 February 2017 14:30 (30 minutes)

Presenter: FRUGIUELE, Claudia (Weizmann Institute)

Session Classification: New experiments

Contribution ID: 8

Type: **not specified**

MATHUSLA surface detector

Presenter: DREWES, Marco (Technische Universitaet Muenchen (DE))

Session Classification: New experiments

Contribution ID: 9

Type: **not specified**

Project X Physics Study at Fermilab

Monday 27 February 2017 11:00 (45 minutes)

Presenter: QUIGG, Chris (Fermi National Accelerator Lab. (US))

Contribution ID: **10**

Type: **not specified**

Pseudoscalar portals into the dark sector

Thursday 23 February 2017 14:00 (45 minutes)

Presenter: KAHLHOEFER, Felix (DESY)

Contribution ID: **11**

Type: **not specified**

Dark Axion Portal

Thursday 23 February 2017 11:00 (45 minutes)

Presenter: LEE, Hye-Sung (Institute for basic Science (KR))

Session Classification: Axion models

Contribution ID: 12

Type: **not specified**

Wednesday morning session

Contribution ID: 13

Type: **not specified**

Welcome and practical information

Contribution ID: 14

Type: **not specified**

TBA

Presenter: TRAMONTANO, Francesco (Universita e INFN, Napoli (IT))

Session Classification: Standard Model physics at Intesity frontier

Contribution ID: 15

Type: **not specified**

Friday morning session

Contribution ID: 16

Type: **not specified**

Exotic sterile neutrino interactions

Wednesday 1 March 2017 11:30 (30 minutes)

Presenter: BATELL, Brian Thomas (University of Pittsburgh (US))

Contribution ID: 17

Type: **not specified**

TBA

Presenter: MCKEEN, David (University of Pittsburgh)

Contribution ID: **18**

Type: **not specified**

Parton distribution function at Intensity Frontier

Presenter: GUFFANTI, Alberto (Università degli Studi di Tori)

Session Classification: Standard Model physics at Intensity frontier

Contribution ID: **19**

Type: **not specified**

New window for preferred axion models

Thursday 23 February 2017 11:45 (45 minutes)

Presenter: NARDI, Enrico

Session Classification: Axion models

Contribution ID: 20

Type: **not specified**

Running in the Dark Sector

Friday 3 March 2017 11:00 (45 minutes)

Presenter: DAVOUDIASL, Hooman (BNL)

Contribution ID: 21

Type: **not specified**

Cosmological roles of axions within the reach of future experiments

Tuesday 28 February 2017 14:00 (45 minutes)

Presenter: TAKAHASHI, Fuminobu

Contribution ID: 22

Type: **not specified**

The 8Be Anomaly and New Physics

Tuesday 21 February 2017 11:00 (45 minutes)

Presenter: FENG, Jonathan Lee (University of California Irvine (US))

Contribution ID: 23

Type: **not specified**

Self-Interacting Dark Matter

Wednesday 22 February 2017 11:00 (30 minutes)

Presenter: TULIN, Sean (York University)

Session Classification: New dark forces and self-interacting dark matter

Contribution ID: 24

Type: **not specified**

Light Thermal DM & Higgs Portal Mediators

Wednesday 22 February 2017 11:30 (30 minutes)

Presenter: Dr KRNJAIC, Gordan (Fermi National Accelerator Laboratory)

Session Classification: New dark forces and self-interacting dark matter

Contribution ID: 25

Type: **not specified**

See program at
<https://indico.cern.ch/event/608491/timetable/#20170302.detailed>

Session Classification: Physics beyond Colliders joint working group

Contribution ID: 26

Type: **not specified**

Higgs doublet decay as the origin of the baryon asymmetry

Wednesday 1 March 2017 11:00 (30 minutes)

Presenter: HAMBYE, Thomas (Univ. L. Brussels)

Contribution ID: 27

Type: **not specified**

NA62 prospects for hidden sector searches

Monday 27 February 2017 14:00 (30 minutes)

Presenter: LANFRANCHI, Gaia (Istituto Nazionale Fisica Nucleare Frascati (IT))

Session Classification: New experiments

Contribution ID: 28

Type: **not specified**

Neutrinos and new physics

Tuesday 21 February 2017 14:00 (45 minutes)

Presenter: Prof. WF VALLE, Jose (AHEP Group at IFIC, CSIC- U Valencia)

Contribution ID: 29

Type: **not specified**

Light Hidden-sector Particle Searches at Dark Matter "Colliders"

Friday 24 February 2017 11:00 (45 minutes)

Presenter: KIM, Doojin (CERN)

Contribution ID: **30**

Type: **not specified**

Discussio on "Sterile neutrinos and supernovae explosions"

Wednesday 22 February 2017 15:30 (45 minutes)

Presenter: KUSENKO, Alexander

Contribution ID: **31**

Type: **not specified**

Tensions, hints, and speculations. All around ALPs

Monday 27 February 2017 15:00 (45 minutes)

Presenter: TKACHEV, Igor (Russian Academy of Sciences (RU))

Contribution ID: 32

Type: **not specified**

Testing the Standard Model at the Intensity Frontier

Tuesday 28 February 2017 11:00 (45 minutes)

Presenter: TRAMONTANO, Francesco (Universita e INFN, Napoli (IT))

Contribution ID: 33

Type: **not specified**

Light scalar in the minimal left-right model

Friday 3 March 2017 14:00 (30 minutes)

Presenter: ZHANG, Yongchao

Contribution ID: 34

Type: **not specified**

MATHUSLA surface detector

Tuesday 28 February 2017 14:45 (45 minutes)

Presenter: DREWES, Marco (Technische Universitaet Muenchen (DE))

Contribution ID: 35

Type: **not specified**

Dark Matter-Neutrino Interactions

Friday 3 March 2017 11:45 (30 minutes)

Presenter: MCKEEN, David (University of Pittsburgh)