

**Windows on the Universe -  
30th Anniversary Rencontres  
du Vietnam**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Open questions in fundamental physics

*Monday 7 August 2023 11:00 (30 minutes)*

**Presenter:** KAPLAN, David

**Session Classification:** Common Session #1

Contribution ID: 2

Type: **not specified**

## **The physics of massive neutrinos**

*Monday 7 August 2023 12:00 (30 minutes)*

**Presenter:** KOPP, Joachim (CERN)

**Session Classification:** Common Session #1

Contribution ID: **3**

Type: **not specified**

## **Astro/Cosmo common #1**

*Monday 7 August 2023 11:30 (30 minutes)*

**Session Classification:** Common Session #1

Contribution ID: 4

Type: **not specified**

## **SM Overview - Theory**

*Monday 7 August 2023 13:30 (25 minutes)*

**Presenter:** SILVESTRINI, Luca (INFN, Rome)

**Session Classification:** HEP Plenary Session #1

Contribution ID: 6

Type: **not specified**

## **W/Z multiboson production and properties, including W mass**

*Monday 7 August 2023 13:55 (20 minutes)*

**Presenter:** HIROSKY, Bob (University of Virginia (US))

**Session Classification:** HEP Plenary Session #1

Contribution ID: 7

Type: **not specified**

## Top quark production and properties

*Monday 7 August 2023 14:15 (20 minutes)*

**Presenter:** LIAO, Hongbo (Chinese Academy of Sciences (CN))

**Session Classification:** HEP Plenary Session #1

Contribution ID: 8

Type: **not specified**

## **The strong coupling constant: State of the art and prospects**

*Monday 7 August 2023 14:35 (20 minutes)*

**Presenter:** D'ENTERRIA, David (CERN)

**Session Classification:** HEP Plenary Session #1



Contribution ID: 9

Type: **not specified**

## Discussion

*Monday 7 August 2023 14:55 (15 minutes)*

**Session Classification:** HEP Plenary Session #1

Contribution ID: **10**

Type: **not specified**

## Higgs theory talk

*Monday 7 August 2023 15:30 (25 minutes)*

**Presenter:** MUEHLEITNER, Margarete (KIT)

**Session Classification:** HEP Plenary Session #2

Contribution ID: **11**

Type: **not specified**

## **Higgs cross-sections and properties (mass&width)**

*Monday 7 August 2023 15:55 (20 minutes)*

**Presenter:** LIU, Kun (Tsung-Dao Lee Institute, Shanghai Jiao Tong University)

**Session Classification:** HEP Plenary Session #2

Contribution ID: 12

Type: **not specified**

## Higgs couplings

*Monday 7 August 2023 16:15 (20 minutes)*

**Presenter:** DI MICCO, Biagio (Universita' degli Studi di Roma Tre e Istituto Nazionale di Fisica Nucleare (INFN))

**Session Classification:** HEP Plenary Session #2

Contribution ID: 13

Type: **not specified**

## **g-2 theory**

*Monday 7 August 2023 16:35 (20 minutes)*

**Presenter:** EL-KHADRA, Aida

**Session Classification:** HEP Plenary Session #2

Contribution ID: 14

Type: **not specified**

## **g-2 Exp**

*Monday 7 August 2023 16:55 (20 minutes)*

**Presenter:** NGUYEN, Hogan (Fermi National Accelerator Laboratory (FNAL))

**Session Classification:** HEP Plenary Session #2

Contribution ID: 15

Type: **not specified**

## Discussion

*Monday 7 August 2023 17:15 (15 minutes)*

**Session Classification:** HEP Plenary Session #2

Contribution ID: **16**

Type: **not specified**

## **Dark matter Theory**

*Tuesday 8 August 2023 09:30 (30 minutes)*

**Presenter:** BOEHM, Celine

**Session Classification:** Common Session #2



Contribution ID: 17

Type: **not specified**

## **Astro/Cosmo common #2**

*Tuesday 8 August 2023 08:30 (30 minutes)*

**Session Classification:** Common Session #2

Contribution ID: **18**

Type: **not specified**

## **Neutrinos role in cosmology**

*Tuesday 8 August 2023 09:00 (30 minutes)*

**Presenter:** WONG, Yvonne

**Session Classification:** Common Session #2

Contribution ID: **19**

Type: **not specified**

## **Dark matter searches Exp**

*Tuesday 8 August 2023 10:30 (25 minutes)*

**Presenter:** BAUDIS, Laura

**Session Classification:** HEP Plenary Session #3

Contribution ID: **20**

Type: **not specified**

## **New ideas in BSM**

*Tuesday 8 August 2023 10:55 (25 minutes)*

**Presenter:** HAN, Tao

**Session Classification:** HEP Plenary Session #3

Contribution ID: 21

Type: **not specified**

## **Search for long-lived and other exotica @LHC**

*Tuesday 8 August 2023 11:40 (20 minutes)*

**Presenter:** CARLSON, Evan Michael (University of Victoria (CA))

**Session Classification:** HEP Plenary Session #3

Contribution ID: 22

Type: **not specified**

## **Search for SUSY and DM @LHC (CMS)**

*Tuesday 8 August 2023 11:20 (20 minutes)*

**Session Classification:** HEP Plenary Session #3

Contribution ID: 23

Type: **not specified**

## Discussion

*Tuesday 8 August 2023 12:00 (15 minutes)*

**Session Classification:** HEP Plenary Session #3

Contribution ID: 24

Type: **not specified**

## **New ideas in flavour**

*Tuesday 8 August 2023 15:50 (25 minutes)*

**Presenter:** PETROV, Alexey

**Session Classification:** HEP Plenary Session #4



Contribution ID: 25

Type: **not specified**

## Rare HF decays @LHCb

*Tuesday 8 August 2023 16:15 (25 minutes)*

**Presenter:** SCHUNE, Marie-Helene (Université Paris-Saclay (FR))

**Session Classification:** HEP Plenary Session #4

Contribution ID: 26

Type: **not specified**

## **Mixing and CPV in b and c decays**

*Tuesday 8 August 2023 16:40 (25 minutes)*

**Presenter:** OZCELIK, Ozlem (The University of Edinburgh (GB))

**Session Classification:** HEP Plenary Session #4

Contribution ID: 27

Type: **not specified**

## **Belle II highlights**

*Tuesday 8 August 2023 17:05 (20 minutes)*

**Presenter:** KIM, Doris Yangsoo (Soongsil University)

**Session Classification:** HEP Plenary Session #4

Contribution ID: **28**

Type: **not specified**

## Discussion

*Tuesday 8 August 2023 17:45 (15 minutes)*

**Session Classification:** HEP Plenary Session #4

Contribution ID: 29

Type: **not specified**

## Highlights from BES III

*Tuesday 8 August 2023 17:25 (20 minutes)*

**Presenter:** BIANCHI, Fabrizio (Universita degli Studi di Torino)

**Session Classification:** HEP Plenary Session #4

Contribution ID: **30**

Type: **not specified**

## **Tests of CPV through EDM searches**

*Wednesday 9 August 2023 08:30 (25 minutes)*

**Presenter:** FIERLINGER, Peter (TU München)

**Session Classification:** HEP Plenary Session #5

Contribution ID: **31**

Type: **not specified**

## **Kaon experiments**

*Wednesday 9 August 2023 08:55 (20 minutes)*

**Presenter:** PEPE, Monica (INFN Perugia (IT))

**Session Classification:** HEP Plenary Session #5

Contribution ID: **32**

Type: **not specified**

## Open issues in spectroscopy

*Wednesday 9 August 2023 09:15 (25 minutes)*

**Presenter:** KARLINER, Marek (High Energy Physics Department)

**Session Classification:** HEP Plenary Session #5



Contribution ID: 33

Type: **not specified**

## Exotic spectroscopy

*Wednesday 9 August 2023 09:40 (20 minutes)*

**Presenter:** POLYAKOV, Ivan (CERN)

**Session Classification:** HEP Plenary Session #5

Contribution ID: 34

Type: **not specified**

## Neutrino astronomy (IceCube, Antares, KM3NeT)

*Thursday 10 August 2023 08:30 (30 minutes)*

**Presenter:** ISHIHARA, Aya (Chiba University)

**Session Classification:** Common Session #3

Contribution ID: 35

Type: **not specified**

## Multimessenger astronomy

*Thursday 10 August 2023 09:00 (30 minutes)*

**Presenter:** DAVIS, Tamara (U.Queensland (AU))

**Session Classification:** Common Session #3

Contribution ID: **36**

Type: **not specified**

## **Astro/Cosmo common #3**

*Thursday 10 August 2023 09:30 (30 minutes)*

**Session Classification:** Common Session #3

Contribution ID: 37

Type: **not specified**

## Neutrino oscillations

*Thursday 10 August 2023 10:30 (25 minutes)*

**Presenter:** CAO, Son (ICISE)

**Session Classification:** HEP Plenary Session #6

Contribution ID: **38**

Type: **not specified**

## **Search for sterile neutrinos**

*Thursday 10 August 2023 10:55 (25 minutes)*

**Presenter:** Prof. DANILOV, Mikhail (Lebedev Physical Institute Moscow, National Nuclear University MEPhI)

**Session Classification:** HEP Plenary Session #6

Contribution ID: 39

Type: **not specified**

## **Lab-based neutrino mass limits (Katrin)**

*Thursday 10 August 2023 11:20 (20 minutes)*

**Session Classification:** HEP Plenary Session #6

Contribution ID: 40

Type: **not specified**

## Majorana Neutrinos and Matter Creation

*Thursday 10 August 2023 11:40 (25 minutes)*

**Presenter:** SAAKYAN, Ruben (University of London (GB))

**Session Classification:** HEP Plenary Session #6



Contribution ID: 41

Type: **not specified**

## Discussion

*Thursday 10 August 2023 12:05 (15 minutes)*

**Session Classification:** HEP Plenary Session #6

Contribution ID: 42

Type: **not specified**

## **theory challenges in QCD (TH)**

*Thursday 10 August 2023 13:30 (25 minutes)*

**Presenter:** REINA, Laura (Florida State University (US))

**Session Classification:** HEP Plenary Session #7

Contribution ID: 43

Type: **not specified**

## HI review talk: on the medium properties

*Thursday 10 August 2023 13:55 (20 minutes)*

**Presenter:** MOHANTY, Bedangadas (National Institute of Science Education and Research (NISER) (IN))

**Session Classification:** HEP Plenary Session #7

Contribution ID: 44

Type: **not specified**

## HI review talk: on hadronisation

*Thursday 10 August 2023 14:15 (20 minutes)*

**Presenter:** GROSSE-OETRINGHAUS, Jan Fiete (CERN)

**Session Classification:** HEP Plenary Session #7

Contribution ID: 45

Type: **not specified**

## **Jets and jet substructure ( th)**

*Thursday 10 August 2023 14:35 (20 minutes)*

**Presenter:** SCHWARTZ, Matthew

**Session Classification:** HEP Plenary Session #7

Contribution ID: 46

Type: **not specified**

## Discussion

*Thursday 10 August 2023 14:55 (15 minutes)*

**Session Classification:** HEP Plenary Session #7

Contribution ID: 47

Type: **not specified**

## Very light DM (Th)

*Thursday 10 August 2023 15:30 (25 minutes)*

**Presenter:** Dr LAHA, Ranjan (Indian Institute of science (IN))

**Session Classification:** HEP Plenary Session #8

Contribution ID: 48

Type: **not specified**

## **Review of axion searches (Exp)**

*Thursday 10 August 2023 15:55 (25 minutes)*

**Presenter:** IVANOV, Boris (Institute for Basic Science (KR))

**Session Classification:** HEP Plenary Session #8



Contribution ID: 49

Type: **not specified**

## **Status of DM detection with scintillators (COSINE, ANAIS, DAMA/LIBRA, SABRE)**

*Thursday 10 August 2023 16:20 (20 minutes)*

**Presenter:** SCUTTI, Federico

**Session Classification:** HEP Plenary Session #8

Contribution ID: 50

Type: **not specified**

## Discussion

*Thursday 10 August 2023 17:20 (15 minutes)*

**Session Classification:** HEP Plenary Session #8

Contribution ID: 51

Type: **not specified**

## **Astro/Cosmo common #4**

*Friday 11 August 2023 08:30 (30 minutes)*

**Session Classification:** Common Session #4

Contribution ID: 52

Type: **not specified**

## **Astro/Cosmo common #5**

*Friday 11 August 2023 09:00 (30 minutes)*

**Session Classification:** Common Session #4

Contribution ID: 53

Type: **not specified**

## **Theory subject to be fixed**

*Friday 11 August 2023 09:30 (30 minutes)*

**Presenter:** SON, Dam Thanh (University of Chicago)

**Session Classification:** Common Session #4

Contribution ID: 57

Type: **not specified**

## Computing/software including quantum computing

*Friday 11 August 2023 10:30 (25 minutes)*

**Presenter:** LIYAMA, Yutaro (U. Tokyo (JP))iyama@icepp.s.u-tokyo.ac.jp)

**Session Classification:** HEP Plenary Session #9

Contribution ID: 58

Type: **not specified**

# Using quantum technology for fundamental physics

*Friday 11 August 2023 10:55 (25 minutes)*

**Presenter:** BUCHMULLER, Oliver (Imperial College (GB))

**Session Classification:** HEP Plenary Session #9

Contribution ID: 59

Type: **not specified**

## Detector R&D

*Friday 11 August 2023 11:20 (25 minutes)*

**Presenter:** SHARMA, Archana (CERN)

**Session Classification:** HEP Plenary Session #9



Contribution ID: **61**

Type: **not specified**

## Discussion

*Friday 11 August 2023 11:45 (15 minutes)*

**Session Classification:** HEP Plenary Session #9

Contribution ID: **65**

Type: **not specified**

## **Discussion**

*Friday 11 August 2023 15:45 (20 minutes)*

**Session Classification:** HEP Plenary Session #10

Contribution ID: 67

Type: **not specified**

## **Future collider options (FCC, ILC)**

*Friday 11 August 2023 14:15 (30 minutes)*

**Presenter:** ZIMMERMANN, Frank (CERN)

**Session Classification:** HEP Plenary Session #10

Contribution ID: 74

Type: **not specified**

## Discussion

*Wednesday 9 August 2023 10:00 (15 minutes)*

**Session Classification:** HEP Plenary Session #5

Contribution ID: 75

Type: **not specified**

## **Future collider options US - Snowmass**

*Friday 11 August 2023 14:45 (30 minutes)*

**Presenter:** DI PETRILLO, Karri Folan (University of Chicago)

**Session Classification:** HEP Plenary Session #10

Contribution ID: 76

Type: **not specified**

## **Future of HEP in China**

*Friday 11 August 2023 15:15 (30 minutes)*

**Presenter:** WANG, Yifang (IHEP)

**Session Classification:** HEP Plenary Session #10

Contribution ID: 77

Type: **not specified**

## **Searches for Feebly interacting particles (FIPs): status and prospects**

*Thursday 10 August 2023 16:40 (20 minutes)*

**Presenter:** CITRON, Matthew Daniel (University of California Davis (US))

**Session Classification:** HEP Plenary Session #8

Contribution ID: 78

Type: **not specified**

## **Faser/SND**

*Thursday 10 August 2023 17:00 (20 minutes)*

**Presenter:** VILELA, Cristovao

**Session Classification:** HEP Plenary Session #8