

Repository for the FCC LOIs submitted to Snowmass

Report of Contributions

Contribution ID: 1

Type: **not specified**

Measurement of the Z lineshape at FCC-ee

Wednesday 2 September 2020 09:00 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 2

Type: **not specified**

Electroweak Heavy Flavour (bottom, charm,tau) at the FCC-ee

Wednesday 2 September 2020 09:01 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 3

Type: **not specified**

Searches for Long-Lived Particles at the FCC-ee

Wednesday 2 September 2020 09:02 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 4

Type: **not specified**

Charged Lepton Flavour Violation at the FCC-ee

Wednesday 2 September 2020 09:03 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 5

Type: **not specified**

Tau exclusive branching fractions and tau polarisation observables at the FCC-ee

Wednesday 2 September 2020 09:04 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 6

Type: **not specified**

Tau lepton properties and lepton universality measurements at the FCC-ee

Wednesday 2 September 2020 09:05 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 7

Type: **not specified**

Perspectives for high-precision $\alpha_S(m_Z)$ determinations from future e^+e^- measurements at the FCC-ee

Wednesday 2 September 2020 09:06 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 8

Type: **not specified**

High-precision $\alpha_S(m_Z)$ determinations from future FCC-ee $e^+e^- \rightarrow$ hadrons data below the Z peak

Wednesday 2 September 2020 09:07 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 9

Type: **not specified**

Measurement of the W mass and width at FCC-ee

Wednesday 2 September 2020 09:08 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: **10**

Type: **not specified**

Measurement of Higgs parameters at FCC-ee

Wednesday 2 September 2020 09:09 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 11

Type: **not specified**

Higgs boson coupling measurements to charm quarks at FCC-ee

Wednesday 2 September 2020 09:10 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 12

Type: **not specified**

Determination of the $HZ\gamma$ effective coupling at FCC-ee

Wednesday 2 September 2020 09:11 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 13

Type: **not specified**

The invisible Higgs branching fraction at FCC-ee

Wednesday 2 September 2020 09:12 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 14

Type: **not specified**

Top quark physics at FCC-ee

Wednesday 2 September 2020 09:13 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 15

Type: **not specified**

The IDEA Drift Chamber for a Lepton Collider

Wednesday 2 September 2020 10:01 (1 minute)

Session Classification: Contributions to the Instrumentation Frontier

Contribution ID: **16**

Type: **not specified**

IDEA detector Letter of Intent

Wednesday 2 September 2020 10:00 (1 minute)

Session Classification: Contributions to the Instrumentation Frontier

Contribution ID: 17

Type: **not specified**

μ -RWELL detector Letter of Intent

Wednesday 2 September 2020 10:02 (1 minute)

Session Classification: Contributions to the Instrumentation Frontier

Contribution ID: **18**

Type: **not specified**

Dual-Readout Calorimetry

Wednesday 2 September 2020 10:03 (1 minute)

Session Classification: Contributions to the Instrumentation Frontier

Contribution ID: **19**

Type: **not specified**

Key4Hep

Wednesday 2 September 2020 12:00 (1 minute)

Session Classification: Contributions to the computing frontier

Contribution ID: 20

Type: **not specified**

Theory Needs for FCC-ee Part I: Towards high precision EWPO calculations

Wednesday 2 September 2020 13:00 (1 minute)

Session Classification: Contributions to the theory frontier

Contribution ID: 21

Type: **not specified**

Theory Needs for FCC-ee Part II: New methods for SM calculations

Wednesday 2 September 2020 13:01 (1 minute)

Session Classification: Contributions to the theory frontier

Contribution ID: 22

Type: **not specified**

Search for new scalars at FCC-ee

Wednesday 2 September 2020 09:14 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 23

Type: **not specified**

Participation of the FCC Physics Detector and Experiments to Snowmass.21

Wednesday 2 September 2020 08:20 (2 minutes)

Contribution ID: 24

Type: **not specified**

A selection of benchmark studies at FCC-ee

Wednesday 2 September 2020 08:30 (2 minutes)

Contribution ID: 25

Type: **not specified**

FCC-ee as Z, W and H factory

Wednesday 2 September 2020 08:50 (1 minute)

Session Classification: Contributions to the accelerator frontier

Contribution ID: 26

Type: **not specified**

FCC-ee upgrade to top factory

Wednesday 2 September 2020 08:51 (1 minute)

Session Classification: Contributions to the accelerator frontier

Contribution ID: 27

Type: **not specified**

Precision Energy Calibration for a Future Circular Electron-Positron Collider

Wednesday 2 September 2020 08:52 (1 minute)

Session Classification: Contributions to the accelerator frontier

Contribution ID: 28

Type: **not specified**

Monochromatized direct s-channel Higgs production in e+e- at sqrt(s)=125 GeV

Wednesday 2 September 2020 08:53 (1 minute)

Session Classification: Contributions to the accelerator frontier

Contribution ID: 29

Type: **not specified**

A framework and goals for FCC-hh physics studies at Snowmass 2021

Wednesday 2 September 2020 08:25 (1 minute)

Contribution ID: **30**

Type: **not specified**

Elements for FCC electron and positron storage rings

Wednesday 2 September 2020 08:54 (1 minute)

Session Classification: Contributions to the accelerator frontier

Contribution ID: **31**

Type: **not specified**

Superconducting RF for CW Synchrotrons and ERLs

Wednesday 2 September 2020 08:55 (1 minute)

Session Classification: Contributions to the accelerator frontier

Contribution ID: 32

Type: **not specified**

Higher Efficiency High Power RF Generation

Wednesday 2 September 2020 08:56 (1 minute)

Session Classification: Contributions to the accelerator frontier

Contribution ID: 33

Type: **not specified**

Optimizing the FCC-hh Hadron Collider

Wednesday 2 September 2020 08:57 (1 minute)

Session Classification: Contributions to the accelerator frontier

Contribution ID: 34

Type: **not specified**

Detector optimisation and detector technology R&D for the CLIC detector and for the CLD detector of FCC-ee

Wednesday 2 September 2020 10:04 (1 minute)

Session Classification: Contributions to the Instrumentation Frontier

Contribution ID: 35

Type: **not specified**

Ultra-radiation-transparent Superconducting Detector Magnets for High Energy Physics

Wednesday 2 September 2020 08:58 (1 minute)

Session Classification: Contributions to the accelerator frontier

Contribution ID: 36

Type: **not specified**

The effective theory of the see-saw portal at future lepton colliders

Wednesday 2 September 2020 09:15 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 37

Type: **not specified**

Physics at High Energy eh and hh Experiments

Wednesday 2 September 2020 08:35 (1 minute)

Contribution ID: **38**

Type: **not specified**

PERLE a 'Stepping Stone' for the Next Generation ERLs

Wednesday 2 September 2020 08:59 (1 minute)

Session Classification: Contributions to the accelerator frontier

Contribution ID: 39

Type: **not specified**

Energy Frontier eh Scattering - LHeC and FCC-eh

Wednesday 2 September 2020 08:40 (1 minute)

Contribution ID: 40

Type: **not specified**

PDFs, alphas and Low-x Physics and at Future DIS Facilities

Wednesday 2 September 2020 09:35 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 41

Type: **not specified**

LHeC and FCC-eh: Small-x Physics at Energy Frontier Electron-Proton and Electron-Nucleus Colliders

Wednesday 2 September 2020 09:34 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 42

Type: **not specified**

LHeC and FCC-he: Model specific explorations

Wednesday 2 September 2020 09:33 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 43

Type: **not specified**

LHeC and FCC-he: More general explorations

Wednesday 2 September 2020 09:32 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 44

Type: **not specified**

LHeC and FCC-he: Dark Matter

Wednesday 2 September 2020 09:31 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 45

Type: **not specified**

Top-Quark and Electroweak Physics at LHeC and FCC-eh

Wednesday 2 September 2020 09:30 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 46

Type: **not specified**

Detector solutions for Lepton-hadron Scattering based on the LHC and FCC

Wednesday 2 September 2020 11:00 (1 minute)

Session Classification: Contributions to the Instrumentation Frontier

Contribution ID: 47

Type: **not specified**

Heavy-quark physics at FCC-ee: CP-violation

Wednesday 2 September 2020 09:16 (1 minute)

Session Classification: Contributions to the Energy Frontier

Contribution ID: 48

Type: **not specified**

Heavy quark Physics at FCC-ee, rare decays

Wednesday 2 September 2020 09:17 (1 minute)

Session Classification: Contributions to the Energy Frontier