

Energy Frontier Workshop - Open Questions and New Ideas

Report of Contributions

Contribution ID: 1

Type: **not specified**

Discussion

Wednesday, July 22, 2020 12:30 PM (30 minutes)

Contribution ID: 2

Type: **not specified**

Highlights of activities: EF01

Wednesday, July 22, 2020 10:00 AM (10 minutes)

Presenters: KORYTOV, Andrey (University of Florida); VERNIERI, Caterina (SLAC); DAWSON, Sally (Brookhaven National Laboratory)

Session Classification: Plenary 3

Contribution ID: 3

Type: **not specified**

Highlights of activities: EF02

Wednesday, July 22, 2020 10:15 AM (10 minutes)

Presenters: OJALVO, Isabel (Princeton); MEADE, Patrick (Stony Brook University)

Session Classification: Plenary 3

Contribution ID: 4

Type: **not specified**

The importance of the Energy Frontier in the US HEP future planning

Wednesday, July 22, 2020 2:30 PM (1h 30m)

Presenters: D'HONDT, Jorgen (Vrije Universiteit Brussel & IIHE); ARKANI-HAMED, Nima (IAS); ENO, Sarah; SHILTSEV, Vladimir (FNAL); LOU, Xinchou (IHEP); KIM, Young-Kee Kim (The University of Chicago)

Session Classification: Panel Discussion

Contribution ID: 5

Type: **not specified**

Workshop Goals

Monday, July 20, 2020 10:30 AM (30 minutes)

Presenters: TRICOLI, Alessandro (BNL); REINA, Laura (Florida State University); NARAIN, Meenakshi (Brown University)

Session Classification: Opening Plenary

Contribution ID: 6

Type: **not specified**

Energy Frontier Organisation, Activities and Plans

Monday, July 20, 2020 10:00 AM (30 minutes)

Presenters: TRICOLI, Alessandro (BNL); REINA, Laura (Florida State University); NARAIN, Meenakshi (Brown University)

Session Classification: Opening Plenary

Contribution ID: 7

Type: **not specified**

European Strategy Group report

Monday, July 20, 2020 11:00 AM (30 minutes)

Presenter: ABRAMOWICZ, Halina (Tel Aviv University)

Session Classification: Opening Plenary

Contribution ID: 8

Type: **not specified**

Monte Carlo Task Force activities and plans

Monday, July 20, 2020 11:30 AM (30 minutes)

Presenter: STUPAK, John (University of Oklahoma)

Session Classification: Opening Plenary

Contribution ID: 9

Type: **not specified**

ILC - Open Questions and New Ideas

Monday, July 20, 2020 2:20 PM (25 minutes)

Presenter: PESKIN, Michael (SLAC)

Session Classification: Plenary 1

Contribution ID: **10**

Type: **not specified**

CLIC - Open Questions and New Ideas

Monday, July 20, 2020 2:45 PM (25 minutes)

Presenter: ROBSON, Aidan (University of Glasgow)

Session Classification: Plenary 1

Contribution ID: 11

Type: **not specified**

FCC-ee - Open Questions and New Ideas

Monday, July 20, 2020 1:55 PM (25 minutes)

Presenter: KLUTE, Markus (MIT)

Session Classification: Plenary 1

Contribution ID: 12

Type: **not specified**

CepC - Open Questions and New Ideas

Monday, July 20, 2020 1:30 PM (25 minutes)

Presenter: RUAN, Manqi (Institute of High Energy Physics)

Session Classification: Plenary 1

Contribution ID: 13

Type: **not specified**

Future Hadron Colliders - Open Questions and New Ideas

Monday, July 20, 2020 3:10 PM (25 minutes)

Presenter: GRAY, Heather (University of California, Berkeley)

Session Classification: Plenary 1

Contribution ID: 14

Type: **not specified**

Future Electro-Proton and Electron-Hadron Colliders - Open Questions and New Ideas

Monday, July 20, 2020 3:35 PM (25 minutes)

Presenter: ARMESTO, Nestor (University of Santiago de Compostela)

Session Classification: Plenary 1

Contribution ID: 15

Type: **not specified**

Muon Collider - Open Questions and New Ideas

Monday, July 20, 2020 4:00 PM (25 minutes)

Presenter: LUCCHESI, Donatella (INFN-Padova)

Session Classification: Plenary 1

Contribution ID: 16

Type: **not specified**

Highlights of activities: EF03

Wednesday, July 22, 2020 10:30 AM (10 minutes)

Presenters: WACKEROTH, Doreen (University at Buffalo, SUNY); SCHWIENHORST, Reinhard (Michigan State University)

Session Classification: Plenary 3

Contribution ID: 17

Type: **not specified**

Highlights of activities: EF04

Wednesday, July 22, 2020 10:45 AM (10 minutes)

Presenters: BELLONI, Alberto; FREITAS, Ayres (University of Pittsburgh); TIAN, Junping (University of Tokyo)

Session Classification: Plenary 3

Contribution ID: **18**

Type: **not specified**

Highlights of activities: EF05

Wednesday, July 22, 2020 11:00 AM (10 minutes)

Presenters: BEGEL, Michael (Brookhaven National Lab); SCHMITT, Michael (Northwestern University); HOECHE, Stefan (Fermilab)

Session Classification: Plenary 3

Contribution ID: 19

Type: **not specified**

Highlights of activities: EF06

Wednesday, July 22, 2020 11:15 AM (10 minutes)

Presenters: ROYON, Christophe; LIN, Huey-Wen (MSU); NADOLSKY, Pavel (Southern Methodist University)

Session Classification: Plenary 3

Contribution ID: 20

Type: **not specified**

Highlights of activities: EF08

Wednesday, July 22, 2020 11:45 AM (10 minutes)

Presenters: LIPELES, Elliot (University of Pennsylvania); HIRSCHAUER, James (Fermi National Accelerator Laboratory); SHAH, Nausheen (Wayne State University)

Session Classification: Plenary 3

Contribution ID: 21

Type: **not specified**

Highlights of activities: EF07

Wednesday, July 22, 2020 11:30 AM (10 minutes)

Presenters: MUKHERJEE, Swagato (BNL); LEE, Yen-Jie (Massachusetts Institute of Technology)

Session Classification: Plenary 3

Contribution ID: 22

Type: **not specified**

Highlights of activities: EF09

Wednesday, July 22, 2020 12:00 PM (10 minutes)

Presenters: PAGAN GRISO, Simone (Lawrence Berkeley National Laboratory); BOSE, Tulika (University of Wisconsin-Madison); LIU, Zhen (University of Maryland)

Session Classification: Plenary 3

Contribution ID: 23

Type: **not specified**

Highlights of activities: EF10

Wednesday, July 22, 2020 12:15 PM (10 minutes)

Presenters: DOGLIONI, Caterina (Lund University); WANG, Liantao (University of Chicago)

Session Classification: Plenary 3

Contribution ID: 24

Type: **not specified**

Higgs physics - Open Questions and New Ideas

Tuesday, July 21, 2020 10:00 AM (30 minutes)

Presenter: MURAYAMA, Hitoshi (University of California, Berkeley & IPMU, University of Tokyo)

Session Classification: Plenary 2

Contribution ID: 25

Type: **not specified**

Electroweak Physics - Open Questions and New Ideas

Tuesday, July 21, 2020 10:30 AM (30 minutes)

Presenter: DE BLAS, Jorge (INFN)

Session Classification: Plenary 2

Contribution ID: 26

Type: **not specified**

Strong Interactions - Open Questions and New Ideas

Tuesday, July 21, 2020 11:00 AM (30 minutes)

Presenter: GEHRMANN, Thomas (Zurich University)

Session Classification: Plenary 2

Contribution ID: 27

Type: **not specified**

BSM Physics - Open Questions and New Ideas

Tuesday, July 21, 2020 11:30 AM (30 minutes)

Presenter: CARENA, Marcela (Fermilab)

Session Classification: Plenary 2

Contribution ID: 28

Type: **not specified**

Early Career Scientist Chat

Monday, July 20, 2020 12:15 PM (1 hour)

Presenters: ROEPE, Amber; CUMMINGS, Grace (University of Virginia)

Contribution ID: 29

Type: **not specified**

BSM Wishlist

Tuesday, July 21, 2020 2:30 PM (20 minutes)

Presenter: SUNDRUM, Raman (University of Maryland)

Session Classification: Parallel Discussion Session

Contribution ID: **30**

Type: **not specified**

Discussion

Tuesday, July 21, 2020 1:50 PM (10 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: **31**

Type: **not specified**

HH at HL-LHC and FCC-hh

Tuesday, July 21, 2020 3:00 PM (20 minutes)

Presenter: ADELMAN, Jahred

Session Classification: Parallel Discussion Session

Contribution ID: **32**

Type: **not specified**

Discussion

Tuesday, July 21, 2020 2:20 PM (10 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: 33

Type: **not specified**

Discussion

Tuesday, July 21, 2020 4:00 PM (20 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: **34**

Type: **not specified**

Discussion

Tuesday, July 21, 2020 2:50 PM (10 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: 35

Type: **not specified**

Global Fits

Tuesday, July 21, 2020 2:00 PM (20 minutes)

Presenter: DURIEUX, Gauthier (Technion)

Session Classification: Parallel Discussion Session

Contribution ID: **36**

Type: **not specified**

Discussion

Tuesday, July 21, 2020 3:20 PM (10 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: 37

Type: **not specified**

Thoughts on EW observables and calculations

Tuesday, July 21, 2020 3:30 PM (20 minutes)

Presenter: FREITAS, Ayres (University of Pittsburgh)

Session Classification: Parallel Discussion Session

Contribution ID: **38**

Type: **not specified**

Discussion

Tuesday, July 21, 2020 3:50 PM (10 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: 39

Type: **not specified**

Precision QCD Physics Input to European Strategy Update

Tuesday, July 21, 2020 1:30 PM (20 minutes)

Presenter: SALAM, Gavin (CERN)

Session Classification: Parallel Discussion Session

Contribution ID: 40

Type: **not specified**

Discussion

Tuesday, July 21, 2020 4:20 PM (10 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: 41

Type: **not specified**

Forward QCD facility: brainstorming session

Tuesday, July 21, 2020 1:30 PM (40 minutes)

Presenters: GARZELLI, Maria Vittoria (Hamburg Universitaet); KLING, Felix (SLAC)

Session Classification: Parallel Discussion Session

Contribution ID: 42

Type: **not specified**

Testing small-x/saturation approaches in nucleon and nuclear scattering LHeC, FCC. Path toward LOI: brainstorming session

Tuesday, July 21, 2020 2:10 PM (40 minutes)

Presenter: Prof. STASTO, Anna (Pennsylvania State University)

Session Classification: Parallel Discussion Session

Contribution ID: 43

Type: **not specified**

Jet physics in HI and high multiplicity pp

Tuesday, July 21, 2020 3:40 PM (40 minutes)

Presenter: PLOSKON, Mateusz (Lawrence Berkeley National Laboratory)

Session Classification: Parallel Discussion Session

Contribution ID: 44

Type: **not specified**

Status of precision MC simulations for colliders

Tuesday, July 21, 2020 3:00 PM (40 minutes)

Presenter: PRESTEL, Stefan (Fermilab)

Session Classification: Parallel Discussion Session

Contribution ID: 45

Type: **not specified**

Break

Tuesday, July 21, 2020 2:50 PM (10 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: 46

Type: **not specified**

Discussion

Tuesday, July 21, 2020 4:20 PM (10 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: 47

Type: **not specified**

LLP benchmarks Introduction

Tuesday, July 21, 2020 1:30 PM (20 minutes)

Presenter: SHUVE, Brian (Harvey Mudd College)

Session Classification: Parallel Discussion Session

Contribution ID: 48

Type: **not specified**

LLP benchmarks Discussion

Tuesday, July 21, 2020 1:50 PM (30 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: 49

Type: **not specified**

Forward physics and BSM Introduction

Tuesday, July 21, 2020 2:20 PM (15 minutes)

Presenter: FENG, Jonathan (UC Irvine)

Session Classification: Parallel Discussion Session

Contribution ID: **50**

Type: **not specified**

Forward physics and BSM Discussion

Tuesday, July 21, 2020 2:35 PM (15 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: 51

Type: **not specified**

Use of Simplified Models Introduction

Tuesday, July 21, 2020 3:00 PM (15 minutes)

Presenter: KULKARNI, Suchita

Session Classification: Parallel Discussion Session

Contribution ID: 52

Type: **not specified**

Use of Simplified Models Discussion

Tuesday, July 21, 2020 3:15 PM (30 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: 53

Type: **not specified**

Naturalness/Fine Tuning Introduction

Tuesday, July 21, 2020 3:45 PM (15 minutes)

Presenter: SUNDRUM, Raman (University of Maryland)

Session Classification: Parallel Discussion Session

Contribution ID: 54

Type: **not specified**

Naturalness/Fine Tuning Discussion

Tuesday, July 21, 2020 4:00 PM (30 minutes)

Session Classification: Parallel Discussion Session

Contribution ID: 55

Type: **not specified**

Zoom link for EF01-04 parallel session (auto-captioning with otter.ai)

Tuesday, July 21, 2020 1:29 PM (1 minute)

<https://uchicagogroup.zoom.us/j/170161490?pwd=NFFRNGMyWnBwdVpWSERxc21nYTJjUT09>

Session Classification: Parallel Discussion Session

Contribution ID: 56

Type: **not specified**

Zoom link for EF08-10 parallel session (with auto-captioning using otter.ai)

Tuesday, July 21, 2020 1:29 PM (1 minute)

<https://cern.zoom.us/j/98347834702?pwd=aXBMKzFDU1RFdXk3dVhTbnJWclJmZz09>

The minute for Q&As will be recorded here

<https://docs.google.com/document/d/10RuAb7QTRAjuoNKMxs8Ji9JqNdC-6jo8Hzh0FNQHJFg/edit?usp=sharing>

Please help edit and add your inputs.

Session Classification: Parallel Discussion Session

Contribution ID: 57

Type: **not specified**

Zoom link for EF05-07 parallel session

Tuesday, July 21, 2020 1:29 PM (1 minute)

<https://smu.zoom.us/j/93048060070?pwd=TE42U2x1NjUyeXl0cHJTWjd5NFNRUT09>

Meeting ID: 930 4806 0070

Passcode: 004374

Session Classification: Parallel Discussion Session