

ECFA Higgs Factories: 1st Topical Meeting on Generators

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction

Tuesday, 9 November 2021 09:00 (10 minutes)

Presenter: PICCININI, Fulvio (Pavia University and INFN (IT))

Session Classification: Generators

Contribution ID: 2

Type: **not specified**

Herwig

Tuesday, 9 November 2021 09:20 (20 minutes)

Presenter: PLATZER, Simon (University of Graz (AT))

Session Classification: Generators

Contribution ID: 3

Type: **not specified**

PYTHIA

Tuesday, 9 November 2021 09:40 (25 minutes)

Presenter: HELENIUS, Ilkka (University of Jyväskylä)

Session Classification: Generators

Contribution ID: 4

Type: **not specified**

SHERPA

Tuesday, 9 November 2021 10:10 (20 minutes)

Presenter: SCHUMANN, Steffen (Georg-August-Universitaet Goettingen)

Session Classification: Generators

Contribution ID: 5

Type: **not specified**

Discussion

Tuesday, 9 November 2021 10:30 (5 minutes)

Session Classification: Generators

Contribution ID: 6

Type: **not specified**

Madgraph5_aMC@NLO

Tuesday, 9 November 2021 11:00 (20 minutes)

Presenter: FRIXIONE, Stefano (INFN)

Session Classification: Generators

Contribution ID: 7

Type: **not specified**

Powheg

Tuesday, 9 November 2021 16:00 (20 minutes)

Presenter: RE, Emanuele (Universita & INFN, Milano-Bicocca (IT))

Session Classification: Generators

Contribution ID: 8

Type: **not specified**

Whizard

Tuesday, 9 November 2021 11:40 (20 minutes)

Presenter: REUTER, Jürgen

Session Classification: Generators

Contribution ID: 9

Type: **not specified**

Discussion

Tuesday, 9 November 2021 12:00 (10 minutes)

Session Classification: Generators

Contribution ID: **10**

Type: **not specified**

KKMC

Tuesday, 9 November 2021 11:20 (20 minutes)

Presenter: JADACH, Staszek (Polish Academy of Sciences (PL))

Session Classification: Generators

Contribution ID: **11**

Type: **not specified**

BabaYaga

Tuesday, 9 November 2021 16:20 (20 minutes)

Presenters: CARLONI CALAME, Carlo Michel (INFN - National Institute for Nuclear Physics); CARLONI CALAME, Carlo Michel; CARLONI CALAME, Carlo Michel (INFN, Pavia (IT)); CARLONI CALAME, Carlo Michel

Session Classification: Generators

Contribution ID: 13

Type: **not specified**

Geneva

Tuesday, 9 November 2021 16:40 (20 minutes)

Presenter: ALIOLI, Simone (Universita & INFN, Milano-Bicocca (IT))

Session Classification: Generators

Contribution ID: 14

Type: **not specified**

Discussion

Tuesday, 9 November 2021 17:00 (10 minutes)

Session Classification: Generators

Contribution ID: 15

Type: **not specified**

CIRCE

Tuesday, 9 November 2021 14:20 (15 minutes)

Presenter: OHL, Thorsten (Würzburg University)

Session Classification: Generators

Contribution ID: **16**

Type: **not specified**

Guinea Pig

Tuesday, 9 November 2021 14:35 (15 minutes)

Presenter: SCHULTE, Daniel (CERN)

Session Classification: Generators

Contribution ID: 17

Type: **not specified**

Genuine weak corrections and tau lepton decays for phenomenology and Monte Carlo programs. From LEP to LHC, Belle2 and to FCC, ILC, CLIC

Tuesday, 9 November 2021 14:50 (20 minutes)

Presenter: WAS, Zbigniew Andrzej (Polish Academy of Sciences (PL))

Session Classification: Generators

Contribution ID: 18

Type: **not specified**

Madgraph5_aMC@NLO on GPUs and Vectorized C++ and HEP Software Foundation Generator Group Activities

Tuesday, 9 November 2021 14:00 (20 minutes)

Presenter: VALASSI, Andrea (CERN)

Session Classification: Generators

Contribution ID: **19**

Type: **not specified**

The Software Ecosystem

Wednesday, 10 November 2021 09:00 (20 minutes)

Presenter: GANIS, Gerardo (CERN)

Session Classification: Software Ecosystem and the Way Ahead

Contribution ID: 20

Type: **not specified**

Discussion on Interface to KEY4HEP

Wednesday, 10 November 2021 09:20 (30 minutes)

1. Status of Interface with KEY4HEP of the generators?
2. Is help needed to interface?
3. Are features missing in KEY4HEP?

Session Classification: Software Ecosystem and the Way Ahead

Contribution ID: 21

Type: **not specified**

Discussion on Benchmarks

Wednesday, 10 November 2021 09:50 (30 minutes)

1. Beamstrahlung
2. Processes for Performance
3. Processes for Physics Studies

Session Classification: Software Ecosystem and the Way Ahead

Contribution ID: 22

Type: **not specified**

Production Experience LC

Wednesday, 10 November 2021 11:00 (15 minutes)

Presenter: BERGGREN, Mikael (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Software Ecosystem and the Way Ahead

Contribution ID: 23

Type: **not specified**

Production Experience FCC

Wednesday, 10 November 2021 11:15 (15 minutes)

Presenter: HELSENS, Clement (CERN)

Session Classification: Software Ecosystem and the Way Ahead

Contribution ID: 24

Type: **not specified**

Production Experience LHC

Wednesday, 10 November 2021 11:30 (15 minutes)

Presenter: BUCKLEY, Andy (University of Glasgow (GB))

Session Classification: Software Ecosystem and the Way Ahead

Contribution ID: 25

Type: **not specified**

Discussion

Wednesday, 10 November 2021 11:45 (30 minutes)

1. Defining generator settings
2. Testing: which level (basic or expert)
3. Opportunities to get involved?

Session Classification: Software Ecosystem and the Way Ahead

Contribution ID: **28**

Type: **not specified**

Discussion on Future Work

Wednesday, 10 November 2021 12:15 (30 minutes)

1. Meet (Y/N) as complement to ongoing studies (FCC, IDT)
2. Long term goals (2022 and 2023)

Session Classification: Software Ecosystem and the Way Ahead

Contribution ID: 29

Type: **not specified**

Final Remarks

Wednesday, 10 November 2021 12:45 (10 minutes)

Session Classification: Software Ecosystem and the Way Ahead

Contribution ID: **30**

Type: **not specified**

Discussion

Tuesday, 9 November 2021 15:10 (20 minutes)

Session Classification: Generators

Contribution ID: **31**

Type: **not specified**

The new "Future Collider" unit at CERN

Tuesday, 9 November 2021 09:10 (10 minutes)

Presenter: MANGANO, Michelangelo (CERN)

Session Classification: Generators

Contribution ID: **32**

Type: **not specified**

Placeholder if the morning sessions overrun

Wednesday, 10 November 2021 14:00 (1h 30m)

Session Classification: Software Ecosystem and the Way Ahead

Contribution ID: **33**

Type: **not specified**

Discussion LHE

Tuesday, 9 November 2021 10:05 (5 minutes)

Session Classification: Generators