

Tools 2017: Tools for the SM and the New Physics

Report of Contributions

Contribution ID: 1

Type: **not specified**

Overview Talk: Collider tools (50'+10')

Sunday 10 September 2017 11:15 (1 hour)

Presenter: RICHARDSON, Peter (CERN & IPPP, Durham University)

Session Classification: Session 1 - collider codes

Contribution ID: 2

Type: **not specified**

Welcome - presentation

Sunday 10 September 2017 11:00 (15 minutes)

Presenter: BOUDJEMA, Fawzi (LAPTh, Annecy)

Session Classification: Session 0 - Welcome / presentation

Contribution ID: 3

Type: **not specified**

N(N)LO calculations (50'+10')

Sunday 10 September 2017 12:15 (1 hour)

Presenter: LUISONI, Gionata (CERN)

Session Classification: Session 1 - collider codes

Contribution ID: 4

Type: **not specified**

BSM@Collider tools (40'+5')

Tuesday 12 September 2017 09:45 (45 minutes)

Presenter: FUKS, Benjamin (LPTHE (FR))

Session Classification: Session 4 - Collider codes

Contribution ID: 5

Type: **not specified**

Parton showers matching / merging (40'+5')

Sunday 10 September 2017 16:00 (45 minutes)

Presenter: SCHOENHERR, Marek (Universitaet Zuerich (CH))

Session Classification: Session 2 - Collider codes

Contribution ID: 6

Type: **not specified**

Jet physics and boosted objects: Theory (40'+5')

Sunday 10 September 2017 16:45 (45 minutes)

Presenter: SOYEZ, Gregory (IPhT, CEA Saclay)

Session Classification: Session 2 - Collider codes

Contribution ID: 7

Type: **not specified**

Hands on collider tools - FeynRules, MG5_aMC, NLO, (B)SM, ... (1h30)

Tuesday 12 September 2017 11:00 (1h 30m)

Presenter: MATTELAER, Olivier Pierre C (UCLouvain / CERN)

Session Classification: Session 4 - Collider codes

Contribution ID: 8

Type: **not specified**

Overview Talk: Dark Matter tools (40'+5')

Monday 11 September 2017 09:00 (45 minutes)

Presenter: BELANGER, Genevieve

Session Classification: Session 3 - Dark matter codes

Contribution ID: 9

Type: **not specified**

Relic density calculation (40'+5')

Monday 11 September 2017 09:45 (45 minutes)

Presenter: GONDOLO, Paolo (Utah Uni.)

Session Classification: Session 3 - Dark matter codes

Contribution ID: **10**

Type: **not specified**

Direct detection calculations (40'+5')

Monday 11 September 2017 11:00 (45 minutes)

Presenter: CATENA, Riccardo (Chalmers University)

Session Classification: Session 3 - Dark matter codes

Contribution ID: 11

Type: **not specified**

Indirect Detection (40'+5')

Monday 11 September 2017 11:45 (45 minutes)

Presenter: CIRELLI, Marco (CNRS LPTHE Jussieu)

Session Classification: Session 3 - Dark matter codes

Contribution ID: 12

Type: **not specified**

Hands on collider tools - jets and boosted objects (1h)

Sunday 10 September 2017 18:00 (1 hour)

Presenter: SOYEZ, Gregory (IPhT, CEA Saclay)

Session Classification: Session 2 - Collider codes

Contribution ID: 13

Type: **not specified**

Hands on dark matter codes - DarkSUSY (1h30)

Monday 11 September 2017 16:00 (1h 30m)

Presenter: EDSJO, Joakim (Stockholm University)

Session Classification: Session 5 - dark matter codes

Contribution ID: 14

Type: **not specified**

Hands on dark matter codes - MicrOMEGAs (1h30)

Monday 11 September 2017 18:00 (1h 30m)

Presenter: PUKHOV, Alexander (SINP, MSU)

Session Classification: Session 5 - dark matter codes

Contribution ID: 15

Type: **not specified**

Collider codes - the experimentalist standpoint (40'+5')

Tuesday 12 September 2017 09:00 (45 minutes)

Presenter: BUTTERWORTH, Jonathan (University College London (UK))

Session Classification: Session 4 - Collider codes

Contribution ID: 16

Type: **not specified**

FormCalc and FeynArts (25'+5')

Wednesday 13 September 2017 09:00 (30 minutes)

Presenter: HAHN, Thomas (MPI f. Physik)

Session Classification: Session 7 - Overview of specific codes

Contribution ID: 17

Type: **not specified**

USINE (25'+5')

Wednesday 13 September 2017 16:05 (30 minutes)

Presenter: BOUDAUD, Mathieu (LPTHE)

Session Classification: Session 7 - Overview of specific codes

Contribution ID: **18**

Type: **not specified**

Gambit (25'+5')

Wednesday 13 September 2017 11:00 (30 minutes)

Presenter: SCOTT, Pat (Imperial College London)

Session Classification: Session 7 - Overview of specific codes

Contribution ID: 20

Type: **not specified**

Hands on collider tools - Gambit (30')

Wednesday 13 September 2017 17:35 (30 minutes)

Presenter: KVELLESTAD, Anders (Nordita)

Session Classification: Session 7 - Overview of specific codes

Contribution ID: 21

Type: **not specified**

CLUMPY (25'+5')

Wednesday 13 September 2017 16:35 (30 minutes)

Presenter: HÜTTEN, Moritz (DESY/Humboldt-Universität Berlin)

Session Classification: Session 7 - Overview of specific codes

Contribution ID: 22

Type: **not specified**

Smodels (25'+5')

Wednesday 13 September 2017 17:05 (30 minutes)

Presenter: WALTENBERGER, Wolfgang (HEPHY VIENNA)

Session Classification: Session 7 - Overview of specific codes

Contribution ID: 24

Type: **not specified**

Closing remarks

Wednesday 13 September 2017 19:35 (20 minutes)

Session Classification: Session 9 - Closing remarks

Contribution ID: 26

Type: **not specified**

Hands on collider tools - Rivet (1h)

Sunday 10 September 2017 19:00 (1 hour)

Presenter: BUCKLEY, Andy (Glasgow Uni.)

Session Classification: Session 2 - Collider codes

Contribution ID: 27

Type: **not specified**

Hands on collider tools - Herwig (1h)

Tuesday 12 September 2017 12:30 (1 hour)

Presenter: RICHARDSON, Peter (CERN & IPPP, Durham University)

Session Classification: Session 4 - Collider codes

Contribution ID: 28

Type: **not specified**

FeynHiggs (25'+5')

Wednesday 13 September 2017 09:30 (30 minutes)

Presenter: BAHL, Henning (Max-Planck für Physik, München)

Session Classification: Session 7 - Overview of specific codes

Contribution ID: 29

Type: **not specified**

LHC results reinterpretation tools (25'+5')

Wednesday 13 September 2017 10:00 (30 minutes)

Presenter: CONTE, Eric (Institut Pluridisciplinaire Hubert Curien (FR))

Session Classification: Session 7 - Overview of specific codes

Contribution ID: **30**

Type: **not specified**

Whizard (25'+5')

Wednesday 13 September 2017 11:30 (30 minutes)

Presenter: REUTER, Jürgen (DESY Hamburg, Germany)

Session Classification: Session 7 - Overview of specific codes

Contribution ID: **31**

Type: **not specified**

Tutorials (a la carte)

Tutorials related to all the tools presented at the workshop under the form of a multiparallel session.

Contribution ID: 32

Type: **not specified**

PySecDec (25' + 5')

Wednesday 13 September 2017 12:00 (30 minutes)

Presenter: JAHN, Stephan (MPI)

Session Classification: Session 7 - Overview of specific codes