

# **Top Quark Physics Day**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## **Top quark pairs plus electroweak bosons or ETmiss as a window to BSM physics**

*Monday, 11 August 2014 18:25 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr SCHULZE, Markus (CERN)

**Session Classification:** Top quark phenomenology and MC simulation frontier

Contribution ID: 1

Type: **not specified**

## Event deconstruction with top quarks

*Monday, 11 August 2014 10:45 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Prof. SOPER, Davison (University of Oregon)

**Session Classification:** Top quark phenomenology and MC simulation frontier

Contribution ID: 3

Type: **not specified**

## Top quark mass measurement at linear colliders

*Monday, 11 August 2014 11:50 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr SIMON, Frank (Max-Planck-Institut für Physik)

**Session Classification:** Linear / Lepton Colliders

Contribution ID: 4

Type: **not specified**

## Boosted top quarks

*Monday, 11 August 2014 10:20 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr VOS, Marcel (IFIC Valencia)

**Session Classification:** Top quark phenomenology and MC simulation frontier

Contribution ID: 5

Type: **not specified**

## **Top quark pair production near threshold in $e^+e^-$ collisions**

*Monday, 11 August 2014 12:15 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Prof. BENEKE, Martin (TU Munich)

**Session Classification:** Linear / Lepton Colliders

Contribution ID: 6

Type: **not specified**

## **Status of predictions for the total top quark pair cross section and measurement of the pole mass**

*Monday, 11 August 2014 15:00 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr SCHWINN, Christian (Universität Freiburg)

**Session Classification:** Hadron Colliders

Contribution ID: 7

Type: **not specified**

## **The two-loop soft function for fully differential continuum top quark pair production at future linear colliders**

*Monday, 11 August 2014 12:40 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr SCHABINGER, Robert (Johannes Gutenberg University Mainz)

**Session Classification:** Linear / Lepton Colliders



Contribution ID: 8

Type: **not specified**

## **A unified NLO description of off-shell top quark pair and $Wt$ production and decay**

*Monday, 11 August 2014 17:10 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr KALLWEIT, Stefan (University of Zurich)

**Session Classification:** Top quark phenomenology and MC simulation frontier

Contribution ID: 9

Type: **not specified**

## **Precision calculation of top quark pair production in association with jets**

*Monday, 11 August 2014 11:10 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr SCHOENHERR, Marek (IPPP Durham)

**Session Classification:** Top quark phenomenology and MC simulation frontier

Contribution ID: 10

Type: **not specified**

## **Weak corrections to Higgs boson hadroproduction in association with a top quark pair**

*Monday, 11 August 2014 18:50 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr PAGANI, Davide (Université catholique de Louvain, CP3)

**Session Classification:** Top quark phenomenology and MC simulation frontier

Contribution ID: 11

Type: **not specified**

## **RG-improved fully differential predictions for top-pair production at hadron colliders**

*Monday, 11 August 2014 16:45 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Prof. SIGNER, Adrian (Paul Scherrer Institut / UZH)

**Session Classification:** Top quark phenomenology and MC simulation frontier

Contribution ID: 12

Type: **not specified**

## Top quark measurements at LHCb

*Monday, 11 August 2014 09:35 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr GAULD, Rhorry (University of Oxford)

**Session Classification:** Experimental Measurements

Contribution ID: 13

Type: **not specified**

## Single top quark cross section at NNLO

*Monday, 11 August 2014 15:25 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr CAOLA, Fabrizio (Johns Hopkins University / Karlsruhe)

**Session Classification:** Hadron Colliders

Contribution ID: 17

Type: **not specified**

## **BSM top related searches in ATLAS**

*Monday, 11 August 2014 18:00 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr TA, Duc Bao (Michigan State University)

**Session Classification:** Experimental Measurements

Contribution ID: **18**

Type: **not specified**

## **Top quark mass measurements in CMS**

*Monday, 11 August 2014 14:35 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr SILVA, Pedro (CERN)

**Session Classification:** Experimental Measurements



Contribution ID: **19**

Type: **not specified**

## Single top in CMS

*Monday, 11 August 2014 16:20 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr MAIER, Benedikt (Institut für Experimentelle Kernphysik, KIT)

**Session Classification:** Experimental Measurements

Contribution ID: 20

Type: **not specified**

## **Top quark pair production and properties in CMS**

*Monday, 11 August 2014 08:45 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr CHWALEK, Thorsten (Institut für Experimentelle Kernphysik, KIT)

**Session Classification:** Experimental Measurements

Contribution ID: 21

Type: **not specified**

# Top quark mass measurements in ATLAS

*Monday, 11 August 2014 14:10 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr ADOMEIT, Stefanie (LMU Munich)

**Session Classification:** Experimental Measurements

Contribution ID: 22

Type: **not specified**

## Top quark pair production in ATLAS

*Monday, 11 August 2014 09:10 (25 minutes)*

**Co-author:** TOPDAY, A (MIAPP)

**Presenter:** Dr MIJOVIC, Liza (Rheinische Friedrich-Wilhelms-Universität Bonn)

**Session Classification:** Experimental Measurements