

**Theoretical / Experimental  
meeting on the measurement  
of  $M_w$**

**Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Introduction

*Monday, October 20, 2014 2:00 PM (10 minutes)*

Contribution ID: 1

Type: **not specified**

## **Drell-Yan transverse-momentum resummation at NNLL+NNLO**

*Monday, October 20, 2014 2:15 PM (25 minutes)*

**Presenter:** FERRERA, Giancarlo (University of Milan)

Contribution ID: 2

Type: **not specified**

## **Drell-Yan production at NNLO+PS**

*Monday, October 20, 2014 2:50 PM (25 minutes)*

**Presenter:** RE, Emanuele (Oxford)

Contribution ID: 3

Type: **not specified**

## **Drell-Yan report (including QCDxEW uncertainties)**

*Monday, October 20, 2014 3:25 PM (20 minutes)*

**Presenters:** VICINI, Alessandro (Università degli Studi e INFN Milano (IT)); Prof. WACKEROTH, Doreen (SUNY Buffalo)

Contribution ID: 4

Type: **not specified**

## **EW theory uncertainties on Mw (preliminary results)**

*Monday, October 20, 2014 4:30 PM (20 minutes)*

**Presenter:** MARTINEZ, Homero (INFN Pavia)

Contribution ID: 5

Type: **not specified**

## PDF uncertainties (discussion)

*Monday, October 20, 2014 5:00 PM (20 minutes)*

**Presenter:** VICINI, Alessandro (Università degli Studi e INFN Milano (IT))

Contribution ID: 6

Type: **not specified**

## **Tevatron experience. Physics modeling choices**

*Tuesday, October 21, 2014 9:00 AM (20 minutes)*

- focus on experience, successes and limitations of the MC tools used (Resbos, PHOTOS, ...)
- any other relevant aspects in this context

**Presenter:** STARK, Jan (Centre National de la Recherche Scientifique (FR))



Contribution ID: 7

Type: **not specified**

## PDF uncertainty estimates

*Tuesday, October 21, 2014 9:30 AM (20 minutes)*

- give the basic setting (starting points for the two experiments)
- discuss a basic procedure for systematics
- ATLAS PDF ongoing studies
- what can be done to lower the systematics (i.e. new NNPDF set, measurement with 7,8,13 TeV)
- LHC data used to constrain the uncertainties, and how

**Presenter:** CAMARDA, Stefano (Deutsches Elektronen-Synchrotron (DE))

Contribution ID: 8

Type: **not specified**

## **Momentum calibration and recoil: experimental systematics (ATLAS/CMS)**

*Tuesday, October 21, 2014 10:00 AM (20 minutes)*

This talk is on the muon momentum calibration, EM calibration and MET. Not on the methods but more on general problematics.

- general differences between experiments Tevatron vs LHC (ATLAS vs CMS)
- theoretical uncertainties on the Z lineshape- i.e. FSR effect on lepton calibration
- how port the calibrations from the Z to the W

**Presenter:** D'ALFONSO, Mariarosaria (CERN)

Contribution ID: 9

Type: **not specified**

## Vector boson transverse momentum distributions

*Tuesday, October 21, 2014 11:00 AM (20 minutes)*

- give the basic setting ( powheg, RESBOS, tune: starting points for the experiments)
- is the same between experiments ?
- discuss a basic procedure for systematics
- LHC data used to constrain the uncertainties, and how

**Presenter:** PERROZZI, Luca (Eidgenoessische Tech. Hochschule Zuerich (CH))

Contribution ID: **10**

Type: **not specified**

## **Physics modeling : distributions to be published beyond Mw (discussion)**

*Tuesday, October 21, 2014 11:30 AM (20 minutes)*

- other theoretical aspects not covered before (polarization, ...)
- what we need to have to disentangle any discrepancies (i.e. on the theoretical syst between experiments)
- what we need to publish to allow the theorists to help us to study how to lower the theoretical syst uncertainties
- usefulness of other distributions (lepton Pt, boson pt)

**Presenter:** BOONEKAMP, (TBC) Maarten (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR))

Contribution ID: **11**

Type: **not specified**

## **Discussion / next steps**

*Tuesday, October 21, 2014 2:00 PM (1 hour)*