





LHC EWWG meeting

Introduction

Since the December workshop

Quite a lot of activity...

March 2018

-  21 Mar [sin2thetaW combination discussion](#)
-  20 Mar [LHC EW precision subgroup meeting: ptZ and ptW/ptZ predictions](#)
-  14 Mar [LHCEWWG-MB: WZ Analysis discussion & ATLAS/CMS selections](#)
-  07 Mar [LHCEWWG-MB: object definitions & MC kick-off](#)

February 2018

-  23 Feb [LHC-EW WG Jets: conveners meeting](#)
-  21 Feb [LHCEWWG-MB: \(new\) Diboson measurements and uncertainties](#)
-  08 Feb [LHC EWK Multiboson Discussion](#)
-  02 Feb [Theory conveners meeting](#)

January 2018





-  26 Jan [QCD+EW benchmarking Technical Meeting](#)
-  25 Jan [ptZ and pTW theory meeting](#)
-  11 Jan [EWWG admin meeting](#)

-  20 Jun [LHC-EW WG: Jets and EW bosons](#)
-  20 Jun [LHC EW precision sub-group meeting](#)
-  13 Jun [LHC-EW WG: Jets and EW bosons](#)
-  13 Jun [LHCEWWG-MB: NNLOPS & YR](#)

May 2018

-  29 May [EWWG admin meeting](#)
-  22 May - 25 May [LHC EW Precision sub-group meeting](#)
-  16 May [LHC-EW WG: Jets and EW bosons](#)
-  04 May [LHC-EW WG: Jets and EW bosons](#)

April 2018

-  26 Apr [LHC EW precision sub-group meeting](#)
-  25 Apr [LHC EW precision sub-group meeting](#)
-  23 Apr [LHC-EW WG Jets: conveners meeting](#)
-  18 Apr [LHCEWWG-MB: VBF/VBS](#)
-  04 Apr [LHCEWWG-MB: Constraining EFT](#)

... Many thanks to our subgroup conveners for organizing the meetings

LHC EWWG organization

<https://twiki.cern.ch/twiki/bin/view/LHCPhysics/LHCEW>

Working group conveners:

- ATLAS: Ulla Blumenschein, M. Boonekamp
- CMS: Josh Bendavid, Mayda Velasco
- LHCb: William Barter and Tara Shears
- TH: Stefan Dittmaier, Alessandro Vicini, Doreen Wackerroth

Drell-Yan physics and EW precision measurements

Jets and EW bosons

EW multiboson production

Subgroup conveners:

- ATLAS: Daniel Froidevaux
- CMS: Michael Schmitt, Aram Apyan
- LHCb: Olli Lupton, Tara Shears
- TH: Fulvio Piccinini

Subgroup conveners:

- ATLAS: Eram Rizvi, Heberth Torres
- CMS: Hannes Jung, Emanuela Barberis
- LHCb: Stephen Farry, Will Barter
- TH: Marek Schoenherr

Organization of the Group

- **ATLAS:** Kristin Lowasser, Yusheng Wu
- **CMS:** Chia-Ming Kuo, Matthias Mozer
- **Theory:** Jonas Lindert and Celine Degrande

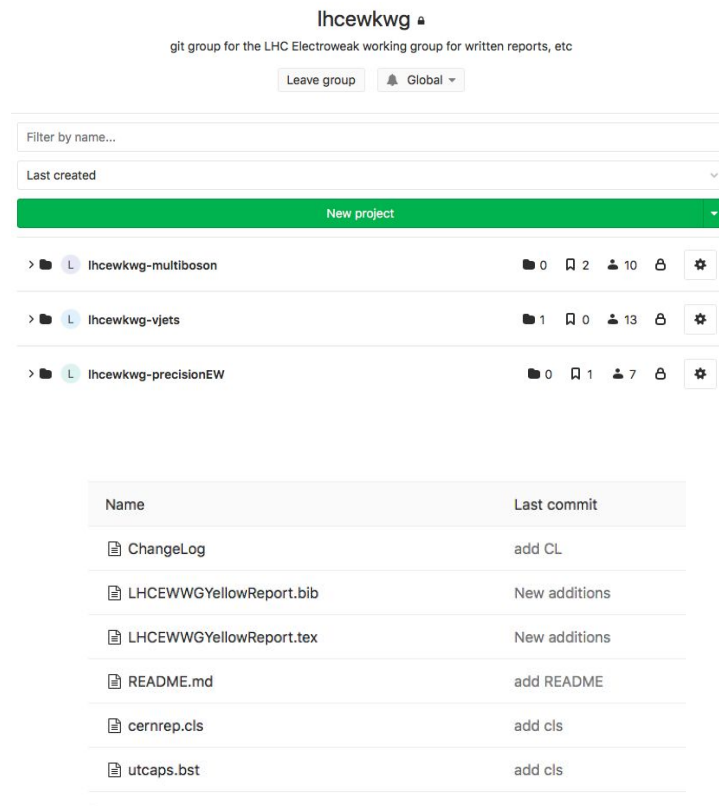
Towards the Yellow Report

Aiming for a report from each subgroup.

Timescale: Main contributions finalised by Dec 2018

- Overview of state-of-the art predictions
Harmonized experimental approaches
Identify potential improvements and critical issues
- Comparisons of results between experiments
Path towards future combinations of results
Treatment of uncertainties and correlations
- Harmonized approach to search for/constrain BSM
Harmonized fiducial regions
Global fits

Report should contain concrete studies based on current results and define recommendations for future analyses.



lhcewkg ^a
git group for the LHC Electroweak working group for written reports, etc

Leave group Global

Filter by name...

Last created

New project

- > **lhcewkg-multiboson** 0 2 10
- > **lhcewkg-vjets** 1 0 13
- > **lhcewkg-precisionEW** 0 1 7

Name	Last commit
ChangeLog	add CL
LHCEWWGYellowReport.bib	New additions
LHCEWWGYellowReport.tex	New additions
README.md	add README
cernrep.cls	add cls
utcaps bst	add cls

Today's sessions

Morning: EWK precision

09:00	QED/EWK aspects of precision measurements 4-3-006 - TH Conference Room, CERN	<i>Fulvio Piccinini</i> 09:20 - 09:50
10:00	Combination of experimental results 4-3-006 - TH Conference Room, CERN	<i>Maarten Boonekamp et al.</i> 10:15 - 10:35
11:00	QCD aspects of precision measurements 4-3-006 - TH Conference Room, CERN	<i>Frank Tackmann et al.</i> 11:10 - 11:40

Afternoon: Jets and EWK bosons

14:00	Combination of systematic uncertainties - common covariance matrices 4-3-006 - TH Conference Room, CERN	<i>Andy Buckley</i> 14:00 - 14:15
	Comparison of measurements 4-3-006 - TH Conference Room, CERN	<i>Mikko Voutilainen</i> 14:25 - 14:40
15:00	Benchmark cross sections: comparison with theory predictions 4-3-006 - TH Conference Room, CERN	<i>Marek Schoenherr</i> 14:50 - 15:05
	Review of theory: multijet merging 4-3-006 - TH Conference Room, CERN	<i>Simon Platzer</i> 15:15 - 15:30
	Theory: NLOPS with TMDs 4-3-006 - TH Conference Room, CERN	<i>Francesco Hautmann</i> 15:40 - 15:55
16:00	Steps towards an LHC tune 4-3-006 - TH Conference Room, CERN	16:05 - 16:20

Tomorrow's sessions

Morning: EWK Multibosons

09:00

Common fiducial definitions (20' + 10')	<i>Yusheng Wu</i>
4-3-006 - TH Conference Room, CERN	09:10 - 09:40

10:00

EFT and sensitive phase spaces (20' +10')	<i>Celine Catherine A Degrande</i>
4-3-006 - TH Conference Room, CERN	09:40 - 10:10

Review of MC studies (20' + 10')	<i>Jonas Lindert</i>
4-3-006 - TH Conference Room, CERN	10:10 - 10:40

11:00

Yellow report plan and discussion (15' + 15')	<i>Jonas Lindert</i>
4-3-006 - TH Conference Room, CERN	10:40 - 11:10

Afternoon: General discussion

13:00

Introduction: Common issues for UE/MPI
4-3-006 - TH Conference Room, CERN

Discussion: Common issues for UE/MPI
4-3-006 - TH Conference Room, CERN

Discussion of common meeting with PDFforLHC
4-3-006 - TH Conference Room, CERN

Wildcard/Overflow Discussion

14:00

4-3-006 - TH Conference Room, CERN

Summary/Plans/Next Steps

4-3-006 - TH Conference Room, CERN

Discussion

4-3-006 - TH Conference Room, CERN