

# status

Yu Zhang

01.25

## Activity areas and contact people

<b>13 TeV analyses</b> <i>Liron Barak</i> <i>Jan Stark</i>	Completion of 13 TeV scalar and graviton analyses + Cross-checks (selection, signal and background models, systematics)
<b>8 TeV analyses</b> <i>Remi Lafaye</i> <i>Quentin Buat</i>	Completion of 8 TeV scalar and graviton analyses (as for 13 TeV, with special focus on selections, new calibration, D3PD tools, MC)
<b>Statistics</b> <i>Nicolas Berger</i>	Common treatment of significance results   LEE   limits 8 TeV/13 TeV compatibility   Goodness of S+B fits
<b>Calibration</b> <i>Isabelle Wingerter</i>	Bias tests and checks (LAr and EGamma) EGamma calibration uncertainties
<b>Isolation</b> <i>Sandrine Laplace</i>	Verify any need of changes (definition, corrections, working points) Efficiencies
<b>Auxiliary measurements</b> <i>Giovanni Marchiori</i>	Diphoton purities Single photon purities vs $E_T$ in $\eta$ bins
<b>Excess/sidebands activity</b> <i>Ruggero Turra</i>	Jets, MET $\cos\theta^*_{\gamma\gamma}$ , $P_T^{\gamma\gamma}$ S-plots or other excess/sideband compatibility

# <https://indico.cern.ch/event/487043/>

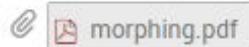
14:00 - 14:30 13 TeV analysis

14:00 **Status and plans 10'**

Speakers: Liron Barak (CERN), Jan Stark (Centre National de la Recherche Scientifique (FR))

14:10 **Signal modelling with morphing 10'**

Speakers: Ruggero Turra (Università degli Studi e INFN Milano (IT)), Mr. Simone Michele Mazza (Università degli Studi e INFN Milano (IT))



14:30 - 15:00 8 TeV analysis

14:30 **Progresses on 8 TeV analysis 10'**

Speaker: Fuquan Wang (University of Wisconsin-Madison Department of Physics)



15:00 - 15:30 Statistics

15:00 **Cross check of EOYE high-mass diphoton scalar analysis statistical results 20'**

Speaker: Hongtao Yang (University of Wisconsin-Madison (US))



15:20 **Checks on the background fitting function 10'**

Speaker: Nicolas Berger (Centre National de la Recherche Scientifique (FR))



15:30 - 16:00 Isolation

15:30 **Status of isolation studies 10'**

Speaker: Sandrine Laplace (LPNHE Paris)



# Zgamma

<https://indico.cern.ch/event/485272/>

- Samples
- Event Selection
- Signal Modelling
- Bkg Modelling
- Statistic treatment

15:00 - 15:05 Inputs from boosted jets analysis 5'

Speakers: Zhijun Liang (University of California,Santa Cruz (US)), Andrea Bocci (Duke University (US)), Shu Li (Duke University (US)), Enrique Kajomovitz Must (Department of Physics), Sergey Burdin (University of Liverpool (GB))



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15:05 - 15:10 Inputs from leptonic analysis 5'

Speakers: Giovanni Marchiori (LPNHE Paris), Tulay Cuhadar Donszelmann (University of Sheffield (GB)), Yanping Huang (Deutsches Elektronen-Synchrotron (DE)), Sergey Burdin (University of Liverpool (GB))



notes for the Zgam...