

Introduction

Ulrich Ellwanger, Maggie Muhlleitner, Florian Staub (TH)
Eric Feng (ATLAS), Nadjieh Jafari (CMS)

LHC Higgs NMSSM Meeting
April 13, 2018

Goals of today's meeting

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- Input from ATLAS and CMS analyses working on searches for NMSSM Higgs sector
 - Requests for theory predictions and guidance
 - Both Higgs and SUSY sectors, and their interplay
 - Generator settings for MC production
 - Common benchmarks for interpretation of experimental results
- Follow-up discussion from last meeting about action items for defining benchmarks, how to present them, etc
- Further ideas are of course welcome in future meetings

Today's agenda

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NMSSM Subgroup of LHC HXSWG3



Friday 13 Apr 2018, 15:30 → 17:30 Europe/Zurich

40-2-A01 (CERN)

Abideh Jafari (CERN), Eric Feng (CERN), Florian Staub (KIT - Karlsruhe Institute of Technology (DE)),
Milada Muhlleitner (KIT - Karlsruhe Institute of Technology (DE)), Ulrich Ellwanger (University Paris 11)

Videoconference
Rooms

LHXS_WG3_-_NMSSM

Join

40-2-A01



15:30 → 15:35 **Introduction**

5m



Speakers: Abideh Jafari (CERN), Eric Feng (CERN), Florian Staub (KIT - Karlsruhe Institute of Technology (DE)), Milada Muhlleitner (KIT - Karlsruhe Institute of Technology (DE)), Ulrich Ellwanger (University Paris 11)

15:40 → 15:50 **ATLAS input and requests for NMSSM**

10m



Speakers: Ljiljana Morvaj (Stony brook Universty (US)), Roger Caminal Armadans (University of Massachusetts (US))

16:00 → 16:10 **CMS input and requests for NMSSM**

10m



Speaker: CMS

16:20 → 16:40 **Discussion about benchmarks and presentation**

20m



Speaker: All

NMSSM group information

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- Twiki: <https://twiki.cern.ch/twiki/bin/view/LHCPhysics/LHCHXSWG NMSSM>
- Mailing lists:
 - Group members: lhc-higgs-nmssm@cern.ch
 - Conveners: lhc-higgs-nmssm-convener@cern.ch
 - Instructions to subscribe:
<https://twiki.cern.ch/twiki/bin/view/LHCPhysics/LHCHXSWG HiggsMailingList>
 - *Please don't hesitate to use mailing lists to share ideas, discuss, etc!*
- SVN repository to store code, etc:
<https://svnweb.cern.ch//cern/wsvn/lhchiggsxs/repository/NMSSM/>