

# WG3 Introduction

Liron Barak + Anna Goussiou (ATLAS), David Sperka (CMS),

Stefania Gori + Pietro Slavich (TH)

# WG3 Organization

<https://twiki.cern.ch/twiki/bin/view/LHCPhysics/LHCHXSWG3>

## Extended Higgs Sector (neutral + charged Higgs bosons):

- ATLAS: [Xiangyang Ju](#) (2017), [Jana Schaarschmidt](#) (2016).
- CMS: [Raffaele Gerosa](#) (2015), [Martin Flechl](#) (2014).
- Theory: [Heather Logan](#), [Rui Santos](#), [Shufang Su](#).

## MSSM Higgs

- ATLAS: [Guillermo Hamity](#) (2017)
- CMS: [Andrew Gilbert](#) (2017)
- Theory: [Michael Spira](#), [Pietro Slavich](#), [Stefan Liebler](#)

## NMSSM Higgs

- ATLAS: [Nikos Rompotis](#) (2018)
- CMS: [Abideh \(Nadjieh\) Jafari](#) (2017)
- Theory: [Ulrich Ellwanger](#), [Margarete Mühlleitner](#) and [Florian Staub](#)

## Exotic Higgs Decays

- ATLAS: [Lily Morvaj](#) (2018)
- CMS: [Cecile Caillol](#) (2017)
- LHCb: [Lorenzo Sestini](#)
- Theory: [Zhen Liu](#), [Jessie Shelton](#)

# WG3 Goals and Deliverables

- **Discussion between theory and experiment on most important channels for covering full BSM Higgs sector**
- Cross sections and Branching Fractions for benchmark models
- Development of common tools for BSM Signal Modelling (MC, reweighting)
- Provide recommendations regarding interference in the various channels.