

LHC-HXSWG

WGI

*Higgs Cross Sections  
and Branching Ratios*

convenors:

Massimiliano Grazzini (TH)

Robert Harlander (TH)

Pasquale Musella (CMS)

Bruce Mellado (ATLAS)

# Contacts

- **list:** [lhc-higgs-wg1@cern.ch](mailto:lhc-higgs-wg1@cern.ch)
- **subscribe:** <https://e-groups.cern.ch/e-groups/Egroup.do?egroupId=10135413>
- **twiki:** <https://twiki.cern.ch/twiki/bin/view/LHCPhysics/LHCHSWG>

# Task forces

- No urgent need for updated numbers of cross sections
- Time for survey of theoretical and experimental needs
- Short term goal (end of 2014): short document summarizing status and open issues for each channel
- encourage people to contribute

# Task forces

- ggH
- VH+VBF
- ttH
- bbH (bottom-initiated processes)
- HH
- off-shell production
- BR (continued from “old” HXSWG)

# ggF

- Stefano Forte (TH)
- Achilleas Lazopoulos (TH)
- Giulia Zanderighi (TH)
- Chris Hays (ATLAS)
- Giovanni Petrucciani (CMS)

# VH+VBF

- Stefan Dittmaier (TH)
- Barbara Jäger (TH)
- Francesco Tramontano (TH)
- Jason Nielsen (ATLAS)
- Elisabetta Pianori (ATLAS)
- Pietro Govoni (CMS)
- Andrea Rizzi (CMS)

# $t\bar{t}H$

- Stefano Pozzorini (TH)
- Laura Reina (TH)
- Stefan Guindon (ATLAS)
- Chris Neu (CMS)

# bbh

- Michael Spira (TH)
- ATLAS, CMS: tba
- *close contact with WG2 and WG3*

# HH

- TH: tba
- Maxime Gouzevitch (CMS)
- Magdalena Slawinska (ATLAS)

# off-shell production

- Fabrizio Caola (TH)
- Nikolas Kauer (TH)
- Yanyan Gao (ATLAS)
- Jian Wang (CMS)

# BR

- Ansgar Denner (TH)
- Sven Heinemeyer (TH)
- Alexander Mück (TH)
- Daniela Rebutzi (ATLAS)
- Ivica Puljak (CMS)

# Goals of this meeting

- give a first overview of status for each process
- get input from participants
- encourage participants to contribute
- start thinking about dedicated meetings