

**General Assembly of the
LHCHXSWG:
wrap up and discussion**

CERN, October 12-14, 2016

Discussion

- Here are some points we think can be discussed but others can be raised

Groups and Subgroups organization

- Status and need of different subgroups
 - Do we need any new groups/subgroups?
 - Are there any groups which need to be hibernated for some time?
 - What about cross groups/task forces (Fiducial/differential cross sections, HH, ...)? Do we integrate them in WGs or other options?
 - Soon a call for nominations for theory WG conveners will be issued, please participate in the nomination process

- Background studies
 - Which ones?
 - How do we interact with EW and top groups, any others?

Public results and presentations

- Public results
 - Do we want to aim at more YRs OR at presenting new results as internal notes/official reports?
 - How many copies of YR4 do we need to print?
 - Timeline of possible next YR
 - Next time do we prefer to make a publication instead of a YR?
- Public presentations
 - Do we need to discuss possible presentations on behalf of the XSWG, in some cases they are requested

30 fb⁻¹ experimental results

- Experimental papers on large 13TeV dataset coming
 - Timescale is probably spring/summer 2017
 - EYETS (longish winter shut-down)
 - Are there things not in YR4 we can feed in?
 - Timeline for new MC is very short: can we influence choice?
 - Recommendations (e.g. ggH bin errors, MSSM benchmarks could still be produced)

HL-LHC

- June 2016: HL-LHC project formally approved by CERN's Council
- Full exploitation of the LHC physics potential with the HL-LHC phase is the top priority.
 - **HL-LHC is CERN's flagship project for the next 20 years (F. Gianotti at ECFA HL-LHC, Aix-les-Bains, Oct. 2016)**
- Detector upgrades foreseen with more b-tag capability and forward-jet tag.
- How to explore Higgs physics potential with 3 ab^{-1} ?
 - Precision Higgs coupling measurements, Higgs self-coupling
 - Heavy Higgs boson searches
 - Rare/Exotic Higgs decays, etc.

Next General meeting

- When shall we have the next general meeting?
 - Traditionally we used to have two meetings per year: one around January and one around June. Now, for various reasons we had this one in October
 - Shall we wait to schedule the next, leaving open the possibilities of beginning of summer or end of summer?
 - Is a meeting before Summer Conferences wished?

Other things

- Any other issues or proposals that it can be useful to discuss?