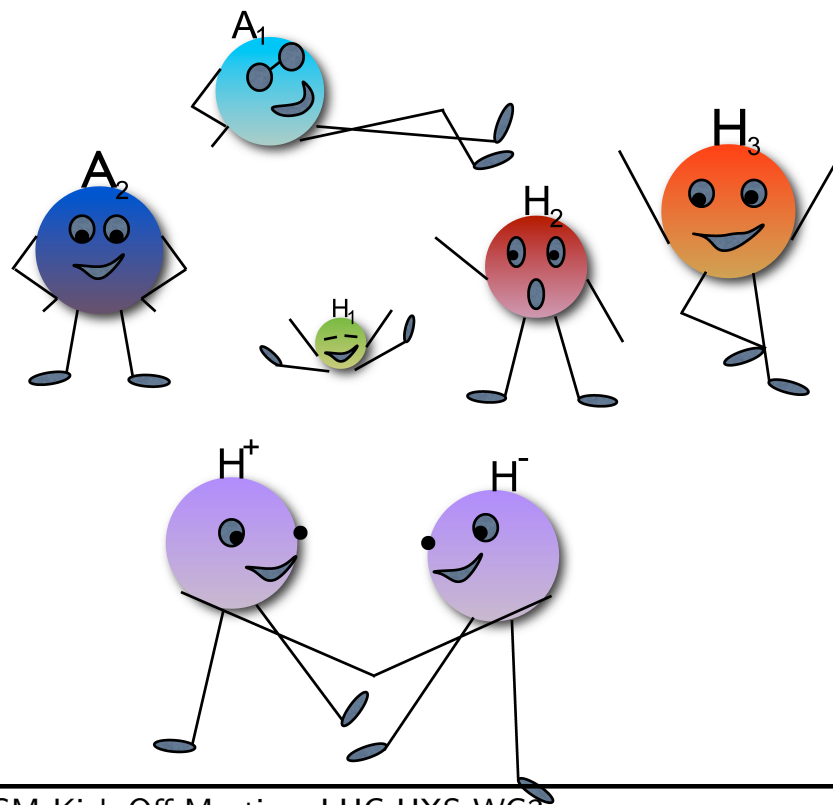

NMSSM Kick-Off Meeting

Ian Low, Margarete Mühlleitner,
Mario Pelliccioni, Nikolaos Rompotis

8 December 2014



LHC Higgs Cross Section Working Group

- **Information on the LHC HXS Working Group and on WG3/BSM Higgs:**

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

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

- **Past and current WG3 meetings:**

<http://indico.cern.ch/category/5849/>

- **Mailing list (please subscribe):**

lhc-higgs-wg3@cern.ch

- **Contact Persons for WG3:**

Theory: Ian Low, Margarete Muhlleitner

Experiment: Mario Pelliccioni (CMS), Nikolaos Rompotis (ATLAS)

- **Contact:**

lhc-higgs-wg3-convener@cern.ch

Aim of NMSSM Kick-Off Meeting

- **First in a series of meetings dedicated to the NMSSM**
- **Topics:**
 - * Provide NMSSM Benchmark Points/Scenarios/Parameter Subspaces:
 - test or exclude subspaces of the NMSSM parameter space
 - distinguish NMSSM from other BSM models
 - unique/exotic signatures (specific) of the NMSSM
 - make sure all relevant mass regions are tested ...
 - * Relation with other measurements (\rightarrow Dark Matter) – implications for NMSSM
 - * How exchange efficiently information between experiment and theory?
 - * Provide tools for the computation of Higgs masses, couplings, cross sections, BRs, ...
 - * Push towards higher orders in the calculations ...
- **Success?** Will depend on all of us and our input
- **Interactions with other working groups:** HH subgroup, branching ratio subgroup, MSSM charged Higgs, ... \rightsquigarrow common meetings