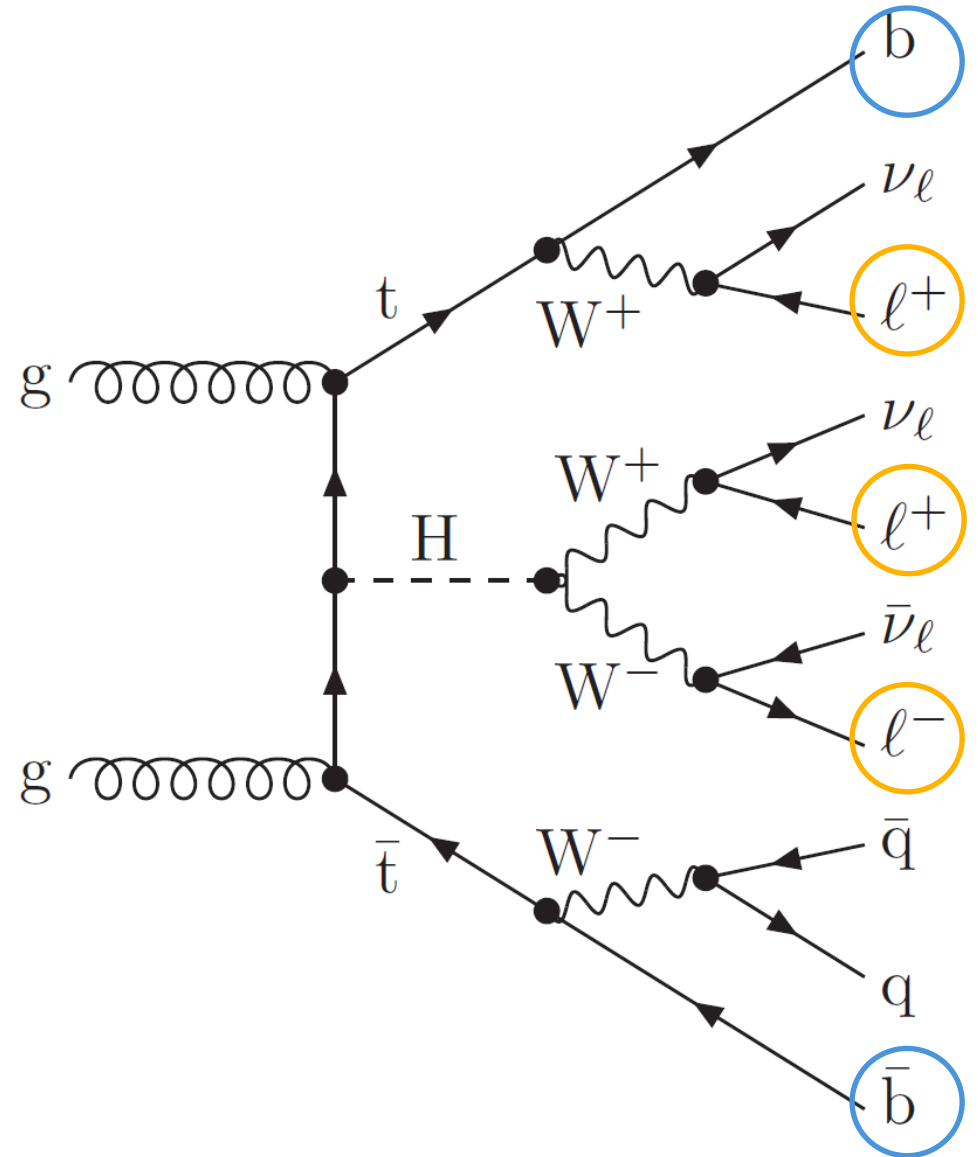# News & Plans

ttH leptonic 10.05.2015

Cristina Botta

Moriond PAS

- a CADI line is being open for ttH-multilepton for Moriond 2016
  - I'm the contact

- we need at least **two additional editors** for PAS and AN preparation

On November Workshop

- During the November workshop there will be 3 talks dedicated to the ttH-multilepton analysis

  - **objects for ttH**

    - dedicated lepton ID variables, JEC usage, MET LD ? …

  - **ttH analysis strategy**

    - full strategy: trigger, offline objects kinematic selection, event categorization, signal extraction

  - **ttH alternative analysis strategy**

    - MEM

- We should discuss and propose names for this talks

  - for the moment I would propose Nicolas for the third one

Default lepton selection

- I propose the following as **default**
  - each improvement will have to be shown with respect
  - we can start to use it to study the full preselection and signal extraction

2lSS

**(20,15) GeV + (30, 10) GeV
from Single+Double triggers**

3l

**(20,15) GeV + (30, 10) GeV
from Single+Double+Triple triggers**

new lepton MVA (p_T in the input variables), WP > 0.65

Tasks to be cover

- Reoptimization of E_T^{miss} **LD**

  - combine PF E_T^{miss} and H_T^{miss} in a linear discriminator to improve rejection of Z +jets.

  - is it still needed? coefficient needs to be retuned?

  - **pretty urgent study to define preselection**

- Charge flip background: data-drive estimate data

- WZ background: data-driven estimate