

# Research work

- Javier:
  - Using templates to measure the top quark width. Aims for a paper. Would be happy to see a conf note on the timescale of a year.
  - Systematics?!
- Mark:
  - Would like to see detailed measurements of  $t\bar{t}$  spin correlation matrix at 8 TeV
  - Wondering if we should try differential (in HT,  $m_{t\bar{t}}$ ?) dilepton  $\Delta\phi$  with first 13 TeV data
- Simon:
  - Top group split into mass, cross-section, properties, single-top, reconstruction
  - Top reconstruction co-sub-convenor: March 2013 - March 2014, March 2014 (renewed for 6 months), Sept 2014 (renewed for 6 months)
    - Manage top reconstruction group contacts: 21 dedicated to  $e\gamma$ , muons, met etc.
    - Paper / note reviews for top group
  - Helping (to try to finish) a different spin correlation measurement

# Top Reconstruction Group

- Run-I (7, 8 TeV)
  - Migration to “final” 2012 calibrations (especially Jet Energy Scale)
  - Making sure 2012 dataset is complete
  - ttbar generator tuning (generator choice, PDF, hdamp)
  - “fake”-lepton estimates, W+jets background estimates
- Preparations for Run-II at 13 TeV
  - New analysis model, triggers, MC simulation
  - Migration to new software
  - Hobby: Collecting top-quark reconstruction codes

# Thoughts

- Bring back weekly coffee!