## **Exercise 1**

- General Question: can we discover the chargino at LHC?
  - We know it's hard but we will try to be quantitative!
- **□** Organisation:
  - 15': Put in context: what we should know about EWKino sector for this exercise
  - 45': Background: how to reduce them, which one dominates? [WIDE DISCUSSION]
  - Form groups of 2 people
  - 1h : Signal Region definition : what discriminating variables ? [USE OF ROOT MACRO] ------ LUNCH ------
  - 1h : Signal Region definition : SR design and sensitivity expected [USE OF ROOT MACRO]
  - 30': Compare with the published results ...
  - 30': Impact of this study and left-over?
- □ Root Macro: 557 MB (!) → Check that the macro works on your laptop before the exercise !!
  - http://www.cern.ch/pralavop/SUSYAnalyzer.tar.gz [Final version have files dated 15-Oct]
  - When downloaded: tar -xzvf SUSYAnalyzer.tar.gz; cd SUSYAnalyzer and follow README
  - Originally setup for ROOT 5.34.05. Works for 5.28/00 onwards.