

# ATLAS PUB note draft status aiming for Seattle workshop

- Nice and efficient interactions with our note reviewer Zhijun last Friday, all reviewer's comments are addressed
- Pub note draft circulated to ATLAS collaboration last Saturday with Bill's help:
  - <https://cds.cern.ch/record/1554610>
- First action items come up based on the comments by Tom LeCompte:
  - 1) y-axis' range of the signal significance plots should stops at  $7\sigma$
  - 2) need to provide  $1.96\sigma$  values to reflect 95% CL limits
  - ...

# Plan for Snow Mass

- Moving on to use **Snow Mass Energy Frontier parametrized FastSimulation framework**. Very practical instructions shown here:  
[http://www.snowmass2013.org/tiki-index.php?page=Energy\\_Frontier\\_FastSimulation](http://www.snowmass2013.org/tiki-index.php?page=Energy_Frontier_FastSimulation)
- EF Hadron collider facility list: (**do we need to study them all?**)  
<http://snowmass2013.org/tiki-index.php?page=EF+Facilities+List>
  - LHC 14 TeV, 300/fb , spacing: 25 ns, pileup: 50 events/crossing
  - LHC 14 TeV, 3000/fb (HL-LHC) , spacing: 25 ns, pileup: 140 events/crossing
  - LHC 33 TeV, 3000/fb (HE-LHC) , spacing: 50 ns, pileup: 225 events/crossing  
(missing...)
  - VHE-LHC 100 TeV, 3000/fb, spacing: 50 ns, pileup: 263 events/crossing  
(missing...)
  - VLHC at 100 TeV, 1000/fb , spacing: 19 ns, pileup: 40 events/crossing
- Limit setting framework:
  - stick with the current p-Value based N- $\sigma$  discoveries
    - (Chris or Shih-Chieh's framework)
  - or try also to include the 95% CL limits?
    - (may need the LHC framework shown by Kalanand last week)