



# *Generators Group*



## ALPGEN Production Status

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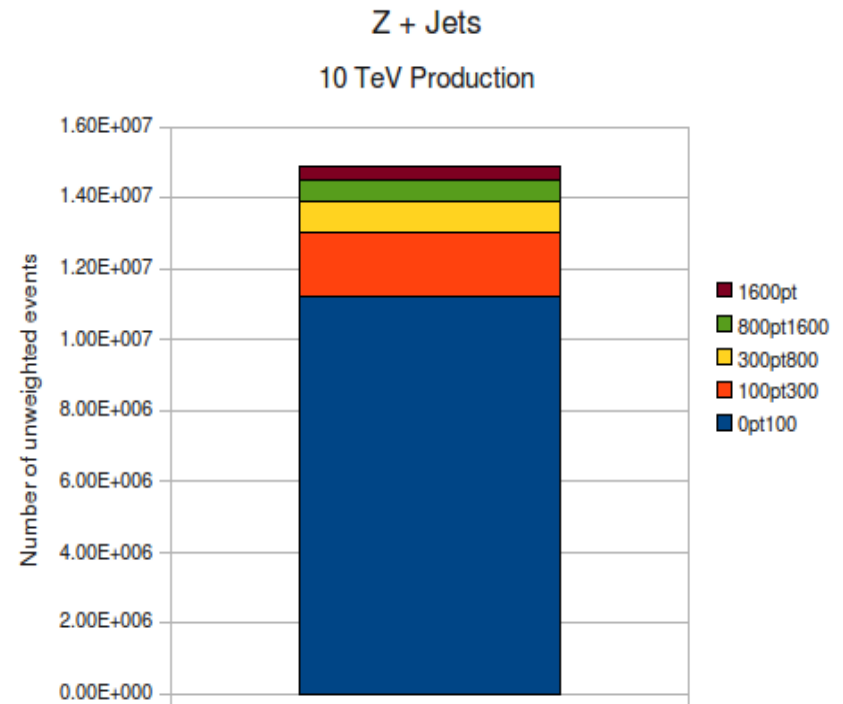
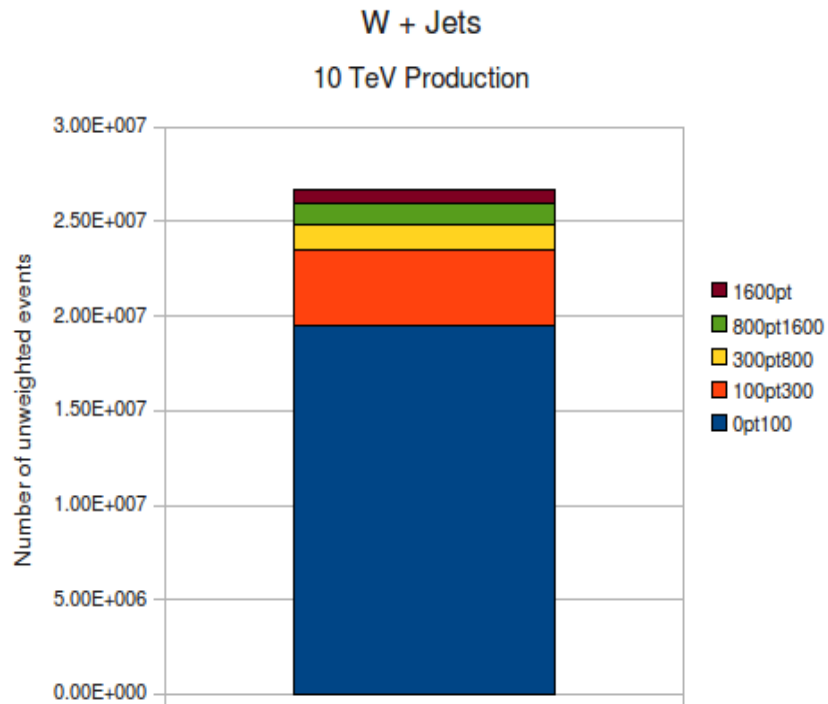
# ***Introduction***



- Two concurrent productions: 7 TeV and 10 TeV.
  - 7 TeV has higher priority.
  - Aiming for 200/pb of simulated luminosity or 10000 events per relevant process, whatever is higher.
  - Can be upscaled later.
- For more information , please see my Sep 3<sup>rd</sup> presentation.



# Status: W,Z + jets 10 TeV



- 26.5 M W+jets unweighted events, resulting in 11 M matched events.
- 15 M Z+jets unweighted events, resulting in 8.8 M matched events.
- Only up to +4 jets, but +5 jets can be added with no hassle.



# *Status: W,Z + jets 7 TeV*



- 17.2 M W+jets unweighted events, resulting in 7.3 M matched events.
- 2.4 M Z+jets unweighted events, resulting in 880K matched events.
- **MISSING SAMPLES:**
  - W+jets,  $pt > 1600$  GeV
  - Z+jets,  $800 < pt < 1600$  GeV and  $pt > 1600$  GeV
  - Notice that  $pt > 1600$  GeV have very small x-section (expect  $< 10^{-4}$  events at 1/fb luminosity). Propose to lower the priority of these samples, pushing them to the back of the line.



# The Line



- 1)  $W + \text{jets}$  – 10 M requested.  $\Leftarrow$  **DONE**
- 2)  $Z + \text{jets}$  – 2 M requested.  $\Leftarrow$  **being done**
- 3)  $t\bar{t} + \text{jets}$  – 7.5 M requested.  $\Leftarrow$  **grids OK**
- 4)  $(W_c, W_{cc}, W_{bb}, Z_{cc}, Z_{bb}) + \text{jets}$  – 3.3 M requested.  $\Leftarrow$  **grids OK**
- 5) Njets for Exotica (4,5,6 partons) – # requested.  $\Leftarrow$  **grids OK**
- 6) Njets for QCD – 20 M requested.  $\Leftarrow$  **need grids**
- 7) Photon + jets for QCD – 17 M requested.  $\Leftarrow$  **need grids**
- 8)  $b\bar{b} + \text{jets}$  – 7.5 M requested.  $\Leftarrow$  **need grids**

Please note that these are the events requested, but will not necessarily be the final numbers.



# *Some considerations*



- Z+jets samples had to be fixed, due to XML idiosyncracies.
  - Don't put "40. < m(l+l-) < 200." in the ALPGEN header – it will confuse the XML header into thinking that you're opening a new tag (remember that tags are in between <> in XML).
- SPRACE (São Paulo T2) will go into downtime until Monday for physical relocation.
  - Pros: this relocation will allow a near-future upgrade.
  - Cons: delay in production.