



Approval plan, deadlines, and action items

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Mjj meeting
(December 9, 2011)

Documentation and approval timeline



- ◆ Going straight to the publication, **no preliminary PAS**
- ◆ **Pre-approval:** January 9, 2012
- ◆ **Target approval:** end of January (depending on review by ARC)
 - ARC is already formed, same ARC as for 2010 V+jets analysis
 - Two analysis notes **AN-11/266** and **AN-2011/484** uploaded to iCMS
 - Contain documentation of the full analysis & cross checks using 2.1 fb⁻¹ data sample (i.e., up-to August tech. stop)
 - Work ongoing to reload the analysis with full 4.7 fb⁻¹ data by December 20, and update the plots and results.

The conveners agree that the group should move quickly to a paper draft. A lot of work has been done and it is time to publish what we have, as the results are quite relevant. The focus of the paper will be on reporting the M_{jj} spectrum and the CDF anomaly, not on setting limits on a handful of theoretical models.

Michael suggested following action items



1. Maria and Kalanand should check that their histograms are identical, once Maria uses the same data sets.
2. Run on the 2011B data and see what is obtained.
3. Consider raising the p_T cut to 40 GeV to clean up the region $60 < M_{jj} < 80$. Also, divide the samples into barrel-only and otherwise to check stability and that the simulation is good enough in the end caps.
4. Put a signal like the CDF one in the analysis and verify the statistical analysis. This should be done for the presentation plots also.
5. Can the poor agreement of data & MC for Maria's electrons be improved when she uses a different data sample (electron+2jets+MHT) ?
6. Provide tables comparing the output of the fit and the expectations (as in Table 6 in Maria's note). Spell out the fit function in the AN.
7. Update & improve the money plots. For example, the M_{jj} distribution should show the turn on below 60 GeV, as in Maria's AN.
8. Provide A & eff, etc., for all models considered.

Countdown



- ◆ AN and PAS need to be frozen at least one week before pre-approval
 - i.e., **January 2.**
 - Assuming it takes at least one week to read the draft carefully and provide feedback, we need final set of results & tables **by Christmas.**

- ◆ Monika and Kalanand are working on the journal draft
 - Our results will be constraining on the CDF anomaly.
 - We agreed (along with the conveners) that this should be a Letter.
 - Given that CDF/D0 results were published in the PRL, I think PRL will be appropriate to publish this result. The other possibility is PLB.
 - We need to discuss among us, then contact Roberto Tenchini for agreement.

- ◆ Aim to have a preliminary version of the journal draft available for feedback by this group by December 20.

BACKUP SLIDES