

Introduction



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HSG5 H- \rightarrow bb weekly meeting, 29 November 2011

Luminosity Uncertainty

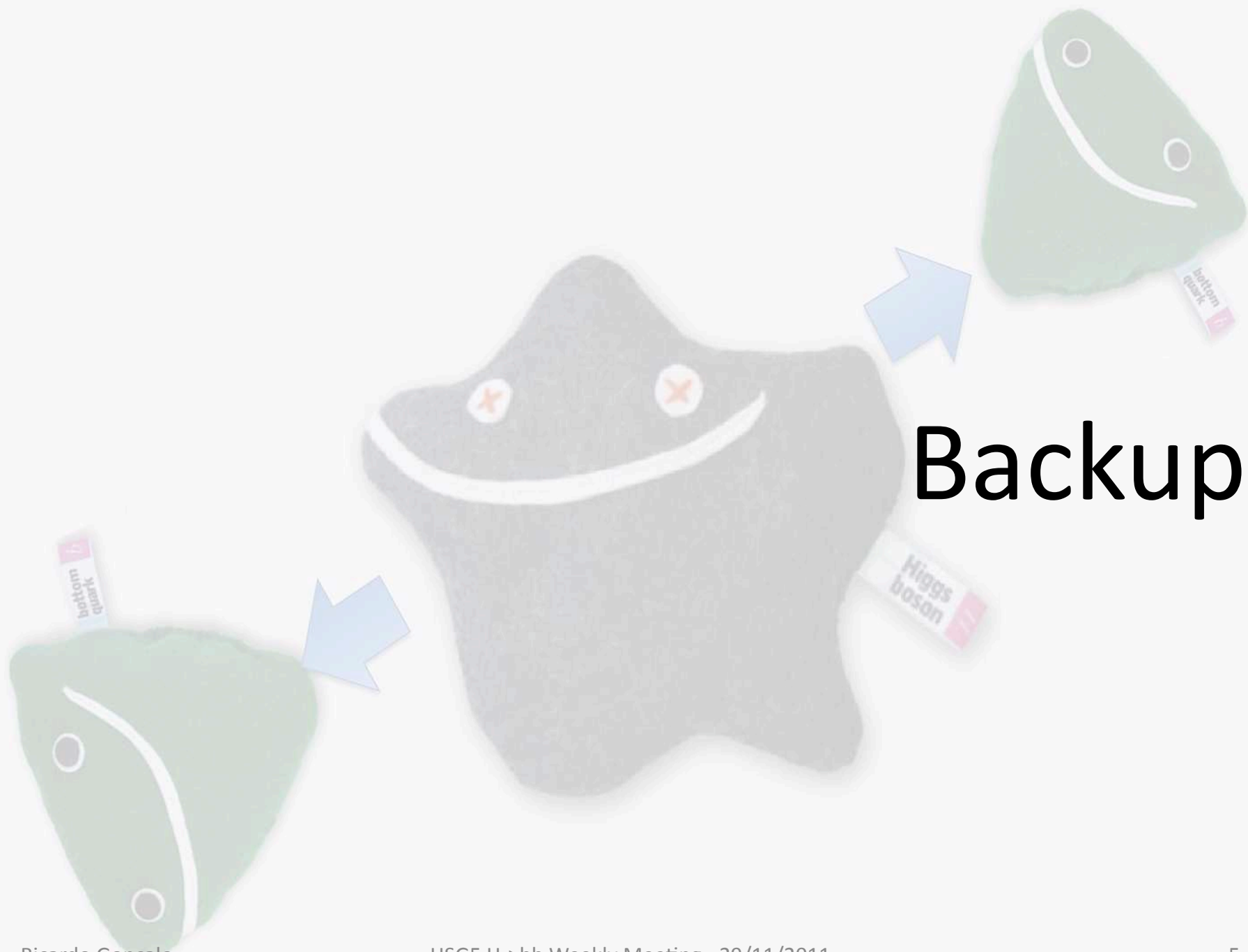
- Luminosity uncertainty for 2011 run
 - Separate number for periods B-K ($\beta^*=1.5\text{m}$) and periods L-M ($\beta^*=1.0\text{m}$)
- Preliminary numbers for 2011 data sample:
 - Central value in tag OfLumi-7TeV-002 still valid
 - Overall uncertainty: $\Delta L/L = 3.9\%$
 - If using periods B-K only: $\Delta L/L = 3.7\%$

December CERN Council meeting

- Higgs Seminar: Tue 13th Dec. 2 pm, public.
 - Talks by Spokespeople of ATLAS and CMS
- CMS has all channels, full statistics
- Publications by ATLAS & CMS results at end of January
- Plan: transform conf. notes for council into papers
 - Analyses not currently approved, but wanting to publish should be frozen by the 13th of December seminar to reduce bias
- How do we get there?
- More details in Fabiola's talk in today's weekly meeting

Other Issues

- Make an area in SVN for WH/ZH COM note
- Ask Ed.Board members to continue for paper
- Make SVN area for boosted analysis COM
- Follow up on MC requests for ZH- \rightarrow vvbb, ttH, VBF/ggF
- Try to find better time slot for HSG5 meeting
- Anything else?



December Note(?)

- First editorial board meeting – introduced issue
- **Not yet done:**
 - Run on all 2011 data (missed part of period M and some other data files)
 - Run on MC11b datasets – status?
 - Move to METRefFinal done in analysis software but unchecked
 - Apply recommended electron fudge factors (appeared on Friday – see text file attached to agenda)
 - Treatment of inefficiency due to bad muon trigger region in period L (trigger muon scale factors appeared on Saturday – attached to agenda)
- **Points of concern/to follow up**
 - Availability of MC11b datasets
 - Vertex multiplicity/MET/pile-up due to pythia 8 minbias events in mc11 (ongoing)
 - Data/MC agreement in 0-jet bin of WH analysis (note analysis cut on $N_{jet} > 2$)
 - b-tagging scale factors - p_T -dependence may sculpt signal, especially due to bin edges
 - Jet systematics – recommendations?
- **Reminder of timeline:**
 - Higgs approval: aim for 25, but no margin!
 - Circulation to ATLAS for 1 week for comments (up to 2 Dec. at latest)
 - Can be reduced to 3 days if we find a nice peak at 115 GeV, confirmed by $H \rightarrow \gamma\gamma$ ☺
 - Public presentation plus 1 week for last comments (9 Dec. at latest)
 - CERN Council meeting starts 12 December