

# Status of RA2 @ HH

## **Background samples:**

skimmed with  $HT > 200\text{GeV}$ ,  $MHT > 50\text{GeV}$  & 3Jets (PAT V6 – V7 in progress)  
(good for all methods except QCD (low MHT region needed)) @:

*store/user/thomsen/RA2BackgroundSkims*

the final selection is also skimmed to:

*store/user/thomsen/FinalSelection*

*/TTbarJets-madgraph/Summer09-MC\_31X\_V3\_7TeV-v5/GEN-SIM-RECO*

*/WJets-madgraph/Summer09-MC\_31X\_V3\_7TeV-v3/GEN-SIM-RECO*

*/ZinvisibleJets-madgraph/Summer09-MC\_31X\_V3\_7TeV-v2/GEN-SIM-RECO*

(not complete, yet – problems in London – transferred to DESY)

*/QCD\_Pt250to500-madgraph/Summer09-MC\_31X\_V3\_7TeV-v3/GEN-SIM-RECO*

(not complete, yet)

*/QCD\_Pt500to1000-madgraph/Summer09-MC\_31X\_V3\_7TeV-v3/GEN-SIM-RECO*

(only @ T1 – transferred to DESY)

*/QCD\_Pt1000toInf-madgraph/Summer09-MC\_31X\_V3\_7TeV-v3/GEN-SIM-RECO*

(not completely @ T2 – transferred to DESY)

## **Other samples:**

*/Zjets-madgraph/Summer09-MC\_31X\_V3\_7TeV-v4/GEN-SIM-RECO*

**Thanks for all the space given to this by Christian & Hartmut**

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**Please correct if I am wrong! Just my impression:**

## **Status of the RA2 note:**

- nearly done and in revision for ttbar & Wjet
- nearly done and in revision for QCD (ABCD), but needs to be redone for 7TeV (**Samples with low MET needed?**)
- QCD (resolution function) in good shape, but not sure of the status of rebalancing method needed for unbiased result

## **Status for the use in data:**

- QCD (ABCD) ready to go
- Ttbar & Wjet ready, but some more thoughts on the efficiency calculation and exact Electron definition needed
- QCD (resolution function) ready, but not sure of the status of rebalancing methode and some integration needed

## **Status for the use in data with $<50\text{pb}^{-1}$ (ICHEP):**

- Both QCD methods as above
- Ttbar & Wjet needs at least 100-200  $\text{pb}^{-1}$  for proper use