



UNIVERSITY
of
GLASGOW

WH, H->bb
UPDATE 18 / 04 / 2011

UPDATE

- **Moved from Top WG D3PD's to WZ D3PDs**
 - Allows for a direct comparison with Jonas (LMU)
 - Greater flexibility – staco and Muid muons available
- **Applied muon Pt smearing to MC.**
 - Recalculated Px, Py, Pz from new Pt
- **Applied Electron smearing to MC**
 - Recalculated Et, P, Pt, Px, Py and Pz from new E
- **Applied Electron energy scale factor to Data.**
 - Recalculated Et, P, Pt, Px, Py and Pz from new E
- **Applied JES with eta offset correction due to pile up.**
 - Procedure is different for data and MC
- **Applied SF for Muon and Electron efficiencies**
- **Applied SF to MC for pile up correction**
- **All of the corrections can be switched on/off individually to study effects**

WHAT NEXT?

- **Comparing cut flows with LMU**
- Having small differences with initial selection of leptons
- Waiting on Jonas to get back to me with numbers without smearing
- I will continue comparing numbers with Jonas and others throughout analysis
- **Compare affects of systematics**
- How will I measure these effects? S/B , Data/MC....both????
- **Will I start by looking at S/B without any systematic corrections, then add them one at a time to see differences??**
- **Currently looking at IP3D + SV1 Tagger**
- There are no calibrations for this tagger
- **Will also study effects of other Taggers. SV0 and JetProb**
- These have calibrations that I can study.
- **I Have been working on this 50% of my time as the other 50% is working on panda queue monitoring for my OTP task. This Finishes in June**