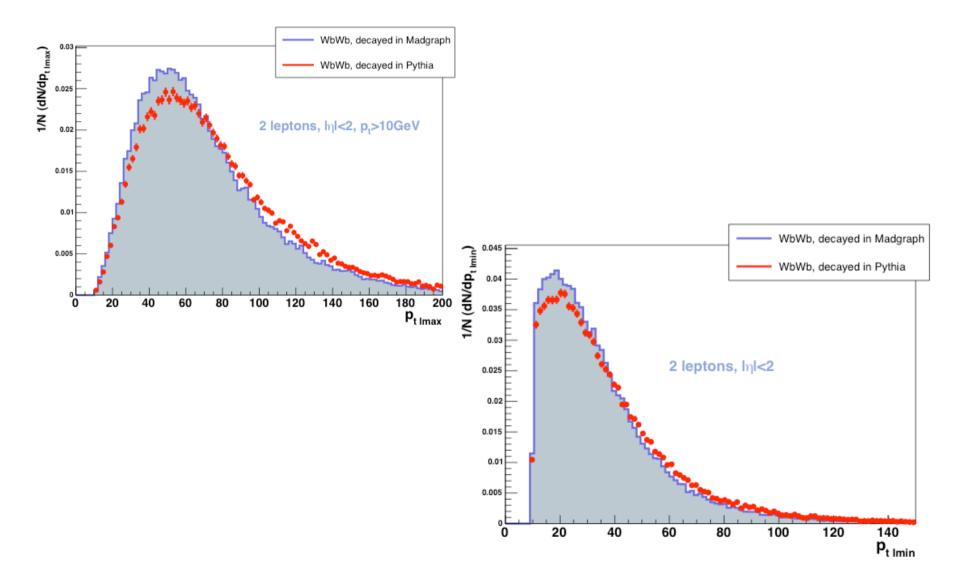
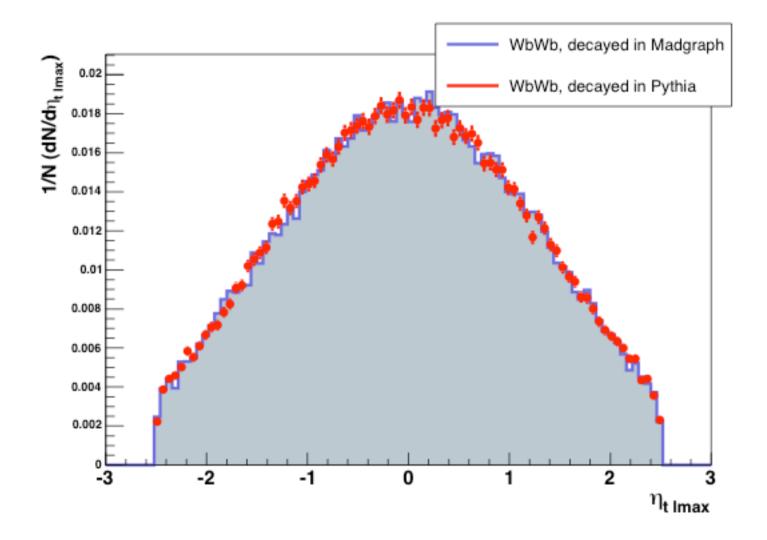
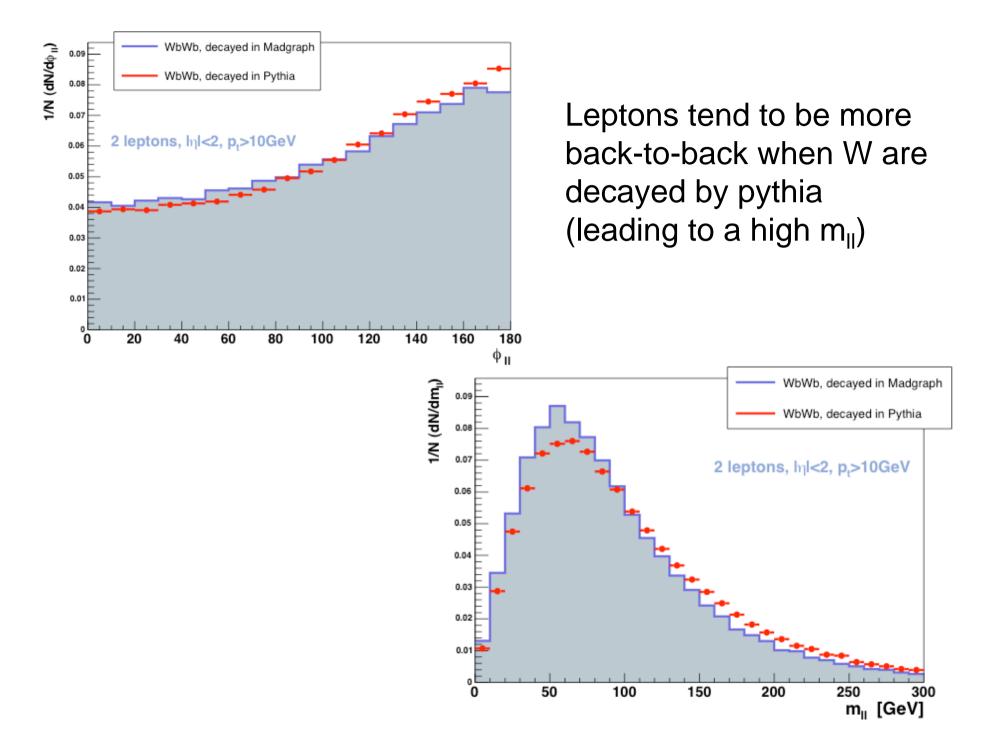
Compare WbWb with full spin correlations and when W's are decayed in PYTHIA

Les Houches workshop, May 2005

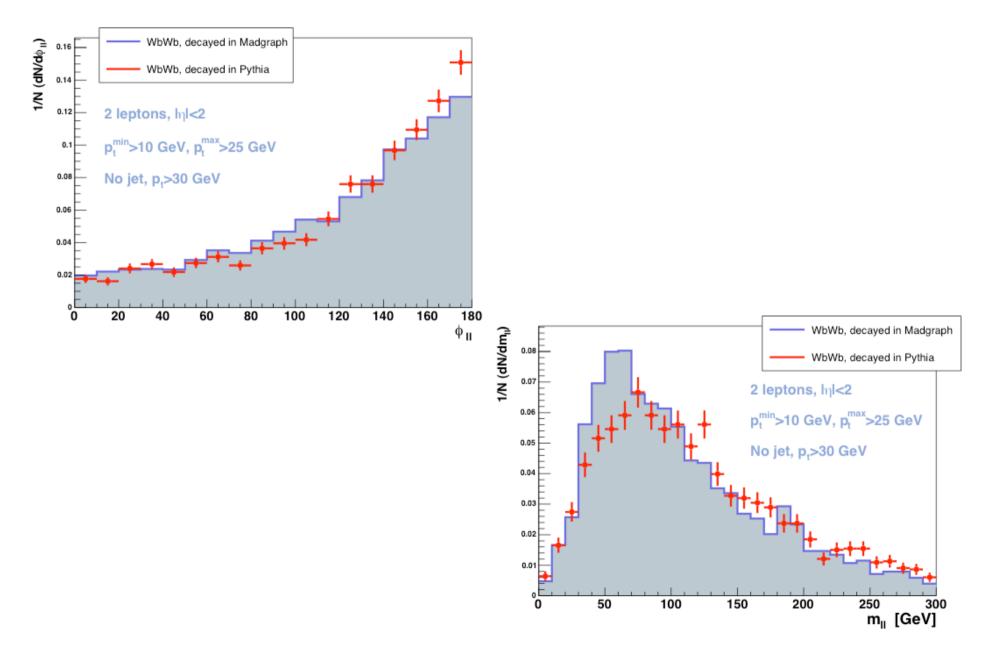
## The pt spectrum of the leptons is harder when the W's are decayed in PYTHIA







## Variables after jet veto and lepton p<sub>t</sub> cuts and jet veto



Selection efficiency: Cross section after cuts  $(\sigma_{tot}(pp \rightarrow wbwb) \times BR(e,\mu,\tau) = 60.6pb)$ 

	W decayed in MadGraph	W decayed in Pythia
2 isolated leptons (p <sub>t</sub> >10GeV,  η <2)	11pb	12pb
Jet veto (pt>30GeV, η  <2.5) Et <sup>miss</sup> >40GeV	400fb	410fb
φ <sub>ll</sub> <45º 5GeV <m<sub>ll&lt;40GeV</m<sub>	34fb	30fb
30GeV <p<sub>t<sup>max</sup>(lep)&lt;55GeV p<sub>t</sub><sup>min</sup>(lep)&gt;25GeV</p<sub>	4.7fb	5.3fb