W W + 2 jets Analysis

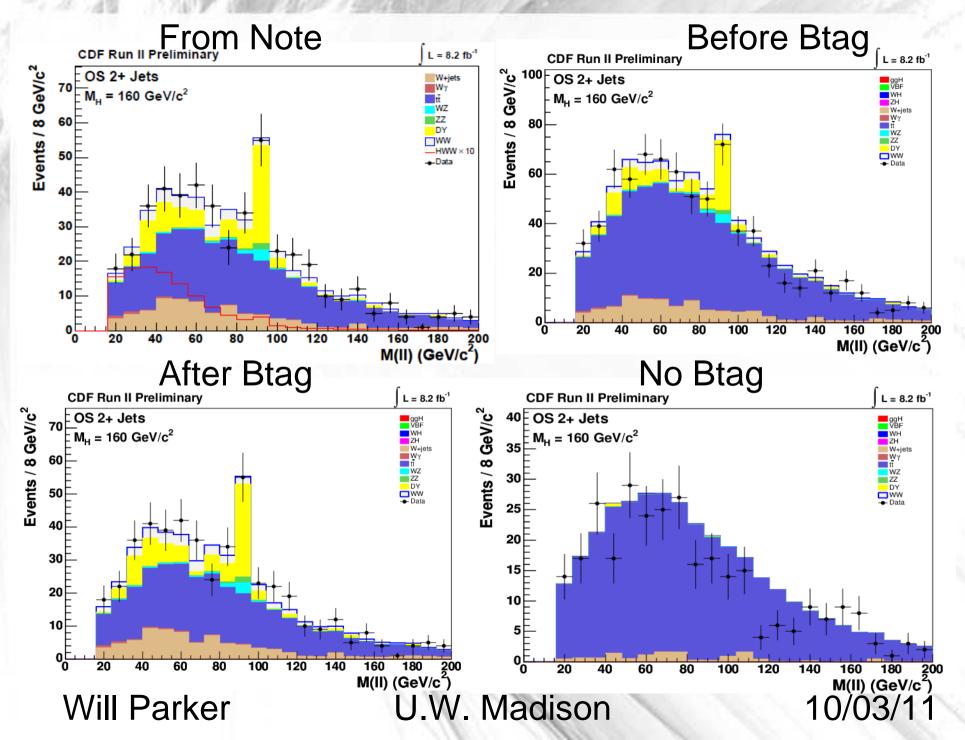


Will Parker
University of Wisconsin – Madison
10/03/11

WW+2Jets Analysis

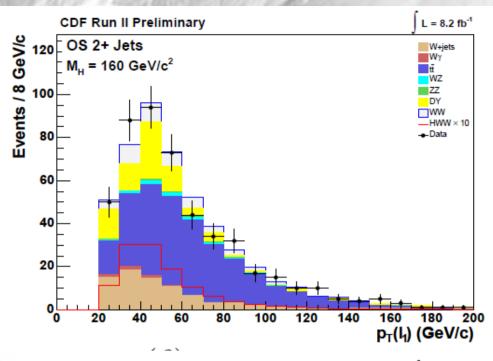
- Updated to 8.2 fm^-1
- Found the source of major data-MC discrepancy (missing W+Jets events)
- Correct plotting script fixed this along with graphic problems
- Applied W-gamma rescaling, b-tagging, and made plots
- Have not applied Si/noSi scaling (3% effect)
- No Higgs (despite legend)

M(II)

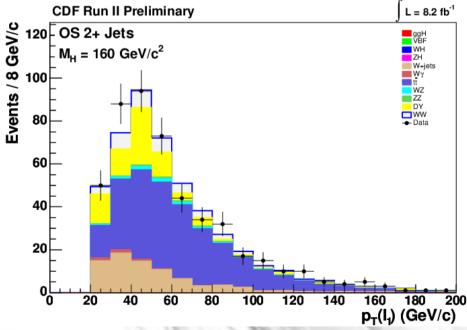


Pt(I_1)





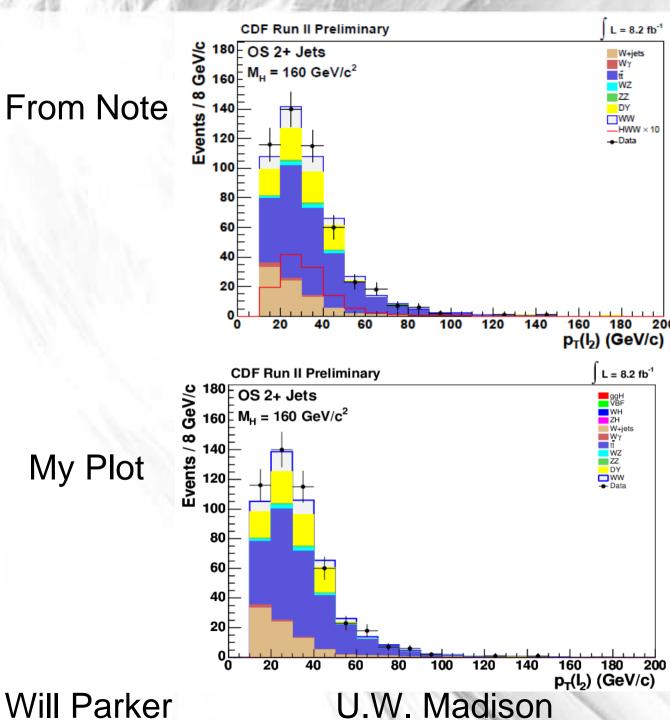
My Plot



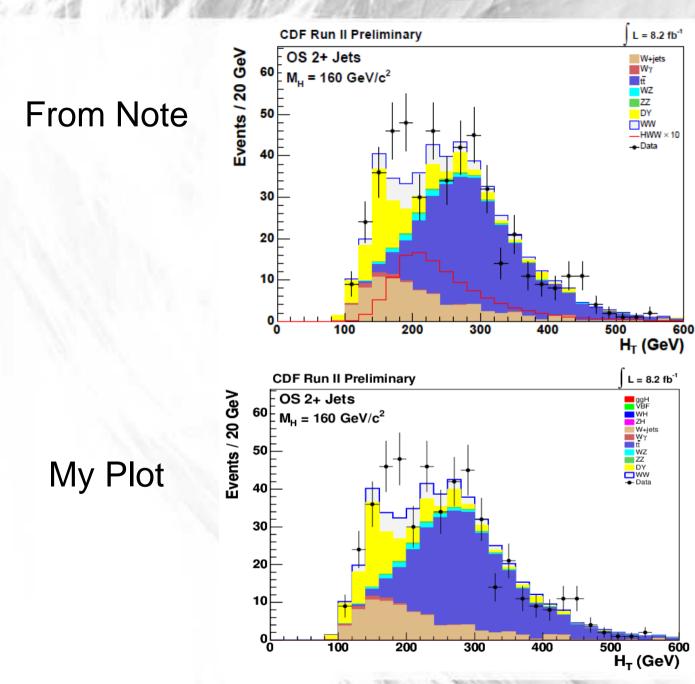
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$Pt(I_2)$



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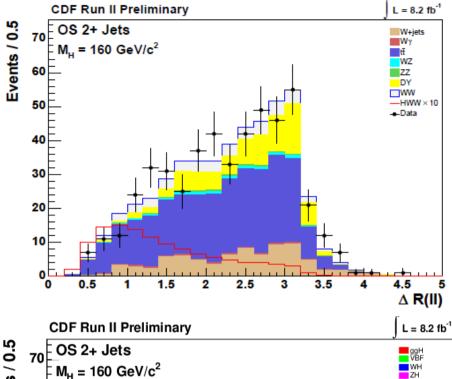


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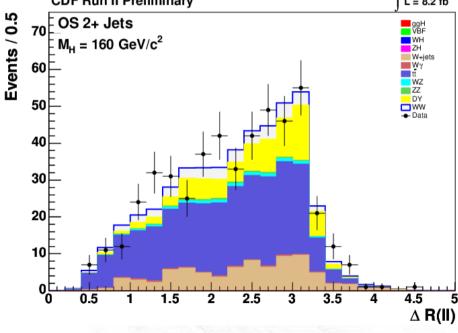
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Delta_R(I,I)





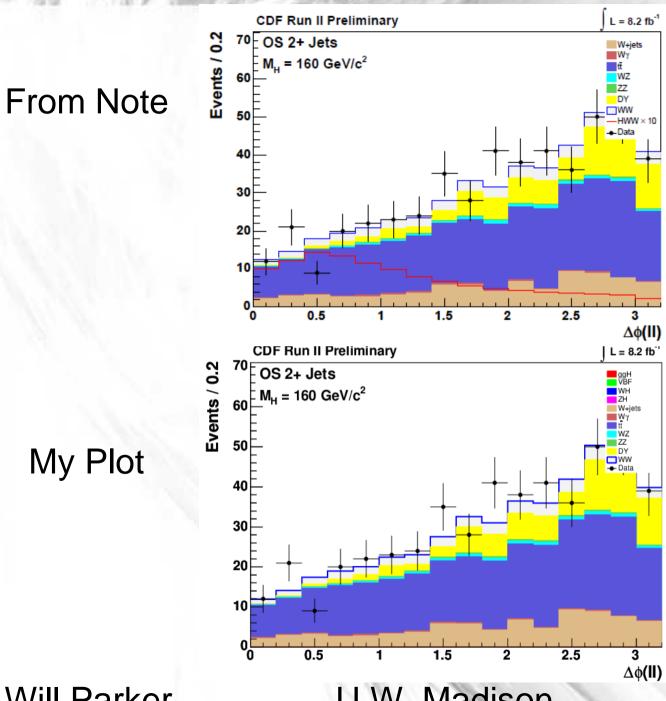
My Plot



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Delta_Phi(I,I)



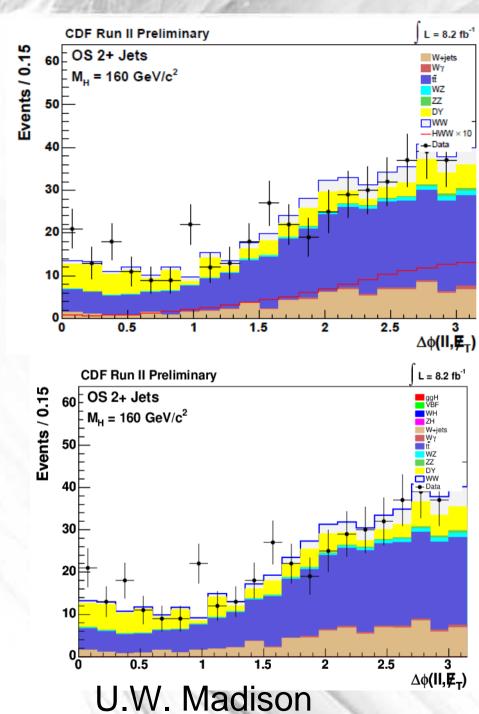
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Delta_Phi(II,MEt)

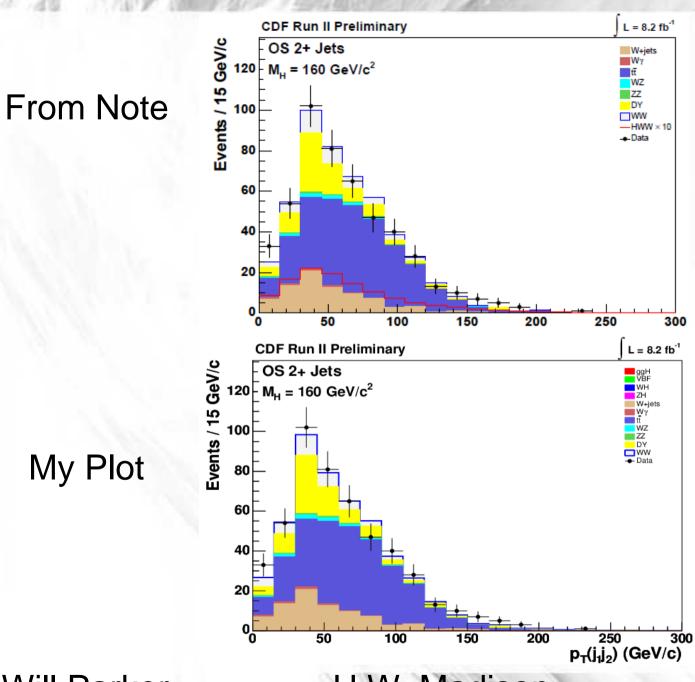
From Note

My Plot



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Pt(j1,j2)



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Next Steps: Si/noSi Scaling

Total 2+Jet Events	356	
B-tagged events	142	
No b-tagged events	214	
Events not in Si GRL	22	
B-tagged events not in Si GRL	3	
No b-tagged events not in Si GRL	19	
Ratio anti-b-tag/b-tag in Si GRL	195/139	
Expected ratio in no-Si GRL	12.85/9.15	
Expected events in anti-b-tagged region	207.85	
SF for anti-b-tagged region	214/207.85	1.0297
SF for b-tagged region	142/148.15	0.9585

- Table from ntp processing checklist
- Don't understand these numbers
- Next step in checklist is running Neural Net
- Sherpa is running

Will Parker