

D0/CDF/Theory

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Remaining issues in W/Z

- Pt/ ϕ^* distribution
 - W and Z production modeling is still not perfect experimentally
- W asymmetry
 - d/u uncertainty \rightarrow g uncertainty
- Electroweak measurements
 - AFB
 - Anomalous couplings
 - W mass

Theory

- Theory also is either good at low or high q_t and has limited EWK corrections or QCD
 - PYTHIA/AlpGen/Sherpa/....
 - RESBOS – CP, Pavel N.
 - POWHEG + W/Zgrad? Doreen and Cathy
 - FEWZ + leading logs? Frank and Sonny are working on this now.
 - HORACE
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Plan

- Share methods – list of theses, internal notes
- Report in common format
 - Frank P. really likes the cross sections quoted at x where $\langle \sigma \rangle = \sigma(x)$
 - Make the same EWK corrections or not
 - Limited phase space as well as full phase space
 - Unfold or not?
- Work with theorists to get models we can use
 - Reweighting methods