An overview of what I have been doing

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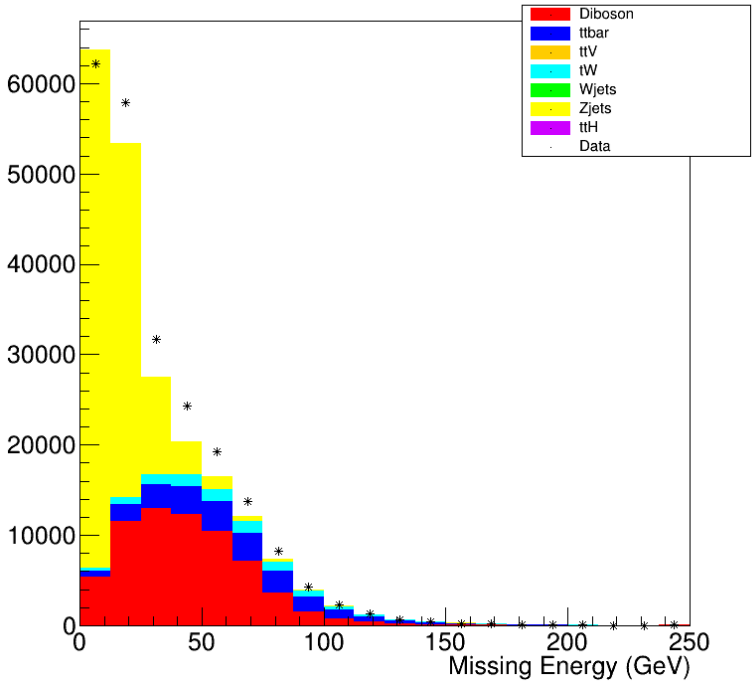
Analysis - AIDA

- **AIDA**: **A**n **I**nclusive **D**ilepton **A**nalysis
- In the AIDA framework dilepton events with opposite-flavor and opposite-charge (or same-flavor, same-charge etc.) are selected and binned in histograms with Missing E_T and N_{jets}.
- The sensitivity of the analysis may allow for anomalous regions to be identified (i.e. New Physics).
- Starting with the Top DxAODs, SingleTop was used to remove unnecessary trees from the DAODs. Since the tW analysis software packages weren't compatible with the **DL1r** systematic trees, some modifications were made and pushed upstream.
- A simple analysis code was written that produced histograms (including systematics) in two separate ROOT files. Generated histograms as input for TRExFitter. Using Asmiov data with injected bumps to explore how the fit works.

0 jets Opposite Flavor - Opposite Charge



N ≥ 1 jets Opposite Flavor - Opposite Charge