

Search for Single Top Quark Production

- Significance of observation of single top signal
 - Measured in # of standard deviations
 - Assuming experiments measure an excess of events over background that corresponds to the standard model single top cross section
 - Estimate is based on recently published DØ search
 - Using neural networks and binned likelihood on 230pb^{-1}
- Extrapolate sensitivity of the analysis to larger datasets
 - Assuming no change to analysis procedure or efficiencies or resolutions
- Ignoring systematic uncertainties and expected analysis improvements

