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A Search for Single Top at DZERO using a Decision Tree based Analysis GORDON WATTS, University of Washington, THE DZERO COLLABORATION — The DZERO experiment has recently completed a search for Single Top Quark production. The Single Top signal consists of a lepton, jets, and missing energy; its largest background is W Boson Production in addition to jets. DZERO employed a variety of techniques to separate signal from the W + Jets background. This presentation describes the Decision Tree technique. We will discuss the limits obtained on Single Top production using Decision Trees and compare them to those obtained using Neural Network technique. Finally, we will discuss future improvements to the technique.

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