

I am currently working on a stopped muon analysis in the 35 ton liquid argon time projection chamber (LAr-TPC) detector at Fermilab that will use samples of stopped muons and the associated Michel electrons for measurement of the Michel rho parameter and detector energy resolution. Stopping muons, i.e. muons which enter the detector and then stop and decay within the LAr-TPC's fiducial volume, are straightforward to identify. With their simple structure of a muon track followed by a Michel electron track from the muon decay, stopping muons will provide a low energy data sample suitable for analysis of a new detector, and the measurement of a well known standard model parameter will be an important benchmark for the 35t detector.