



Poster session 1 - Monday 4 July

P1.007 A prototype for a Neutrino High Pressure TPC

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Uncertainties in neutrino cross section models form a dominant uncertainty for current long-baseline neutrino oscillation experiments and pose a challenge for future experiments. Low threshold detectors, including a high pressure TPC (HPTPC), can provide a new window into cross section uncertainties and reduce the impact of uncertainties. A proto-type HPTPC is described, which can also provide measurements of proton and pion cross sections on a variety of nuclear targets. These measurements will also provide interesting inputs for current generation cross section models.