

## Fast Neutron Detection with MITPC at Fermilab

*Monday, 8 June 2015 14:15 (15 minutes)*

MITPC, formerly known as DCTPC, is a neutron detector that has completed runs at Double Chooz and will begin running on the Fermilab Booster Neutrino Beamline this summer. The neutron rates measured by MITPC will serve the Short-Baseline Neutrino program. MITPC is a gas-based time projection chamber which has used a mix of He-4 and CF4 in previous runs, but will use a mix of Ne and CF4 at Fermilab. In this talk, I will discuss plans for running MITPC at Fermilab and preliminary test results with the Ne/CF4 gas.

### **Is this an abstract for a New Perspectives presentation?**

Yes, for a New Perspectives presentation.

### **Is this an abstract for a Users Meeting Poster?**

No, not for a poster.

**Primary author:** MOULAI, Marjon (Massachusetts Institute of Technology)

**Presenter:** MOULAI, Marjon (Massachusetts Institute of Technology)

**Session Classification:** Session 3 - Reactor Neutrinos, and More!