

The Neutron Multiplicity Meter at Soudan (Y. Chen, 20')

Releasing data soon, even just the >10 multiplicity data, would be great.

South Dakota neutron detector (C. Zhang, 20')

KamLAND scintillator very different, so quenching won't be the same (different material) can't blindly use another experiment's Birk's constant.

Ideal detector would be shorter. Trade-off between large size to increase number of counts vs. short to improve signal. Next generation can be optimized.

Coincident Events in the Soudan Muon-Shielded Room (A. Villano, 20')

Measuring muon bundles can be done and would be a useful measurement.

The WATCHMAN Project (M. Bergevin, 20')

Decision on 1 kton detector will be made 2014-5.
Plastic scintillator with Gd detector is being built by Livermore and Sandia.
EGADS shows 80% hit of attenuation length in water when doped with Gd.
Shallow enough to be dominated by direct mu-neutron production.

Neutron measurements at SNOLAB: SNO and HALO (N. Smith, 20')

No points of discussion

CERN Neutron Production Project (C.-J. Lin, 15')

Can run parasitically somewhat with COMPASS (1 month/year at high energy).
Fixed target will restart late 2014, probably run with hadron for a first 2 years, then muon beam 2 years.
May need to develop automated/remote switching of targets.
Concerns about systematics: multiple scatters within target, scatters outside target, etc., previous NA55 experiment showed poor agreement with simulations; however, plans to be able to change thickness of target, test for systematics better than NA55, better simulations now than then.