



## Poster session 2 – Tuesday 5 July

### P2.054 MeV sterile neutrino decays at the Fermilab SBN complex

M Ross-Lonergan, P Ballett and S Pascoli

University of Durham, UK

We study the sensitivity of the Short-Baseline Neutrino (SBN) programme at Fermilab to sterile neutrino decay in both a minimal extension and more generic beyond the Standard Model scenarios. We provide estimates for the sensitivity that the SBN can be expected to place on the parameter spaces of these models, finding that we can in many cases extend the current bounds whilst, due to the strong particle identification capabilities of liquid-Argon technology, placing bounds on as yet unconstrained channels.