

Abstract Submitted
for the HAW14 Meeting of
The American Physical Society

Status of fits for sterile neutrino models on global data GABRIEL COLLIN, Massachusetts Inst of Tech-MIT, PROF. CONRAD'S GROUP TEAM — Anomalous signals in various short baseline neutrino experiments suggest the addition of one or more sterile neutrinos to the existing oscillation framework. Fits have been made to $3+n$ ($n=1,2,3$) models with sterile mass splittings in the 1 eV^2 range. This talk will provide an update to the current state of the art analyses of global data. The parameter goodness-of-fit is a statistical test used to address the dilution of the standard χ^2 test due to insensitive bins. This talk will also present the results of an ongoing study into the effects of nuisance (pull) parameters on this test.

Gabriel Collin
Massachusetts Inst of Tech-MIT

Date submitted: 29 Jun 2014

Electronic form version 1.4