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Updated results on sterile neutrinos at MINOS

The phenomenon of neutrino oscillations is the first evidence for physics beyond the standard model. Some experiments have shown hints of oscillations involving a fourth, sterile neutrino flavor. In long baseline experiments such as MINOS, oscillations involving sterile neutrinos could cause a deficit in the neutral current event rate. In this poster we describe measurements of the neutral current energy spectrum in two detectors separated by 735km and interpret the results in a neutrino mixing framework with 3 active + 1 sterile neutrino.

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