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## **Search for Light Sterile Neutrinos With Eight Years of IceCube Data**

IceCube is a gigaton-scale neutrino detector in Antarctica. Its large volume enables the measurement of high-energy, in the TeV range, atmospheric neutrinos. Using eight years of through-going muon neutrino data collected by IceCube, we performed a search for light sterile neutrinos motivated by the short-baseline oscillation anomalies. This new result in muon-neutrino disappearance is unique in that the disappearance probability is enhanced with respect to vacuum expectation by matter effects.

### **Mini-abstract**

Results from the eight year sterile neutrino search in IceCube.

### **Experiment/Collaboration**

IceCube

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