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New Searches for Dark Sectors in Neutrino and Kaon Experiments

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While incomplete, the experimental success and theoretical consistency of the Standard Model suggest that if we are to find new particles or interactions at low energies, they should be very weakly coupled to ordinary matter and likely organized in new secluded or “dark” sectors. In this way, our best chance for discovery lies in low-background and high-intensity experiments, such as neutrino and kaon facilities. In this talk, I will highlight some of the most promising channels for discovery of dark sectors in the MeV and GeV energies, and discuss new ideas for searches that can shed light on tantalizing anomalies in neutrino and nuclear data.

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