

# Long-Lived Particles at Spallation Neutron Sources

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The Japanese Spallation Neutron Source (JSNS) at J-PARC can provide an intense source of light new particles. We study the sensitivity of existing neutrino detectors to the decay in flight of light scalars, axion-like particles, and heavy neutral leptons. Detection sites include the magnetized gaseous argon near detector of the T2K experiment, ND280, the liquid-scintillator detectors of the JSNS<sup>2</sup> experiment, and the KOTO electromagnetic calorimeter. The combination of these setups has the potential to improve existing limits by over an order of magnitude in some regions of parameter space, encouraging further study on data acquisition and background rejection by the experimental collaborations.

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