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Super-Kamiokande status and prospects

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Since beginning operations in 1996, Super-Kamiokande has played a pivotal role in advancing our understanding of neutrino mixing, solar and supernova astrophysics, and in setting some of the most stringent limits on nucleon decay. These efforts have been further strengthened by the recent phased addition of gadolinium to the detector's pure water volume, significantly improving antineutrino identification via tagging of radiative neutron captures following antineutrino charged-current interactions. We report on the status of these studies and discuss the potential impact of the upgrade.

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