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## **Search for DM self-annihilation to neutrino production in KamLAND**

*Wednesday, 29 September 2021 16:35 (15 minutes)*

KamLAND is an ultra-low BG detector with 1000 tons of liquid scintillator.

Taking advantage of this characteristic, we have made great achievements in the neutrino detection, and it can be fully utilized for dark matter search.

In this talk, the result of searching MeV-scale DM self-annihilation to neutrino production in KamLAND. No significant excess was found over the background model, so we set the most stringent upper limit on the DM self-annihilation cross section below about 15 MeV.

In addition, we show the DM search we are doing in KamLAND.

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