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Nucleon decay search in Super-Kamiokande

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As a general feature, Grand Unified Theories (GUTs) predict that protons will decay someday. Proton decay search needs large detector which contains tremendous number of protons and backgrounds of this search are cosmic rays, especially, atmospheric neutrinos. Super-Kamiokande, which is known as a famous neutrino detector, also has the highest sensitivity for nucleon decays in the world. This presentation will give the latest results of nucleon decay searches including processes changing baryon number by two, and discuss about future prospects.

Collaboration

– not specified –

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