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## Recent nucleon decay searches at the Super-Kamiokande experiment.

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Proton decay is a defining prediction of Grand Unified Theories (GUTs).

It provides a unique test of energies around  $10^{(14-16)}$  GeV, which are unreachable by accelerators and which could also be connected with other physics such as neutrino masses.

We will present results of recent nucleon decay searches at the Super-Kamiokande experiment.

Analyses of typically dominant non-SUSY and SUSY

decay modes  $p \rightarrow (e^+, \mu^+) \pi^0$  and

$p \rightarrow \nu K^+$ ,  $n - \bar{n}$  oscillations

as well as more exotic channels such as

$p \rightarrow (e^+, \mu^+) \nu \nu$ ,  $p \rightarrow (e^+, \mu^+) X$ ,

$p \rightarrow (e^+, \mu^+, \tau^+) \nu \nu$  will be discussed.

Some of these searches are novel.

The analyses set world best limits which circumvent the allowed parameter space of theoretical models.

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