

SEARCH FOR NUCLEON DECAY FROM SUPER-KAMIOKANDE

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Latest results on nucleon decay searches from Super-Kamiokande are presented. 3.5 years of the Super-Kamiokande data have been analyzed. Among many possible decay modes, results on the search for $p \rightarrow \bar{\nu}K^+$ (that is predicted by some Super Symmetric Grand Unified Theories) and $p \rightarrow e^+\pi^0$ (that is predicted to be the dominant decay mode for the gauge boson mediated decays) are reported. No evidence for nucleon decay for these modes has been observed. 90% CL lower limits on the nucleon lifetime for $p \rightarrow \bar{\nu}K^+$ and $p \rightarrow e^+\pi^0$ decay modes are 1.6×10^{33} and 5.0×10^{33} yrs, respectively. These results give strong constraints on the Grand Unification models.