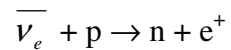


Detection of a Burst of Neutrinos
The Super-detector Collaboration

We report the detection of a burst of 5000 electron antineutrinos in a time interval of 15s on June 2nd 2005. Our detector has an active volume of 40000 tonnes of water and registers electron antineutrinos through the reaction



with cross section $9.77 \times 10^{-42} (E/10 \text{ MeV})^2$. The overall detection efficiency is 70%. Unfortunately this reaction supplies no directional information and no optical detection of a supernova has been reported.