

A SEARCH FOR ASTRONOMICAL NEUTRINO SOURCES WITH THE SUPER-KAMIOKANDE DETECTOR

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High energy neutrino sources of astronomical origin are sought with data from the Super-Kamiokande detector. In this search, the upward going muons with a track length of greater than 7m are used. During first 5 years of operation, we have accumulated almost 2000 such muons, of which about 400 are ones that stopped in the detector and the rest are through going ones that exited the detector. The entire upward going muon sample above is used for this analysis. The details of the analysis will be discussed along with the flux limit obtained for various astronomical objects.