

# Neutrino Program ( cont )

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- The panel further recommends that in any funding scenario considered by the panel, Fermilab proceed with the upgrade of the present proton source by about a factor of two, to 700 kilowatts, to allow a timely start for the neutrino program in the Homestake Mine with the 700-kilowatt source.

These accelerator-based neutrino measurements are extremely challenging and have ambiguities in the interpretation of results. The proposed U.S. and Japanese programs take complementary approaches that together would greatly enhance the understanding of the underlying science. One particular advantage of the envisioned US program is the long baseline available from Fermilab to the Homestake site.