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Data Acquisition System of the MicroBooNE Experiment

The MicroBooNE experiment is based on a liquid argon Time Projection Chamber (TPC) which will be exposed simultaneously to the Booster and NuMI neutrino beams at Fermilab. Neutrino beam events will be triggered using a set of photomultipliers (PMT) immersed in the liquid argon. The trigger, readout and data organization of the MicroBooNE electronics will be described. It is based on ten crates of electronics each read by a PC, followed by an additional event building PC. In addition the electronics and data acquisition will continuously acquire and record TPC and PMT data and store it in a cyclic one hour buffer at a rate of 50MB/sec per PC in order to be able to identify potential supernova neutrino interactions.

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