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Implementation of Intensity Frontier Beam Information Database

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Neutrino physics research is an important part of FNAL scientific program in post Tevatron era. Neutrino experiments are taking advantage of high beam intensity delivered by the FNAL accelerator complex. These experiments share a common beam infrastructure, and require detailed information about the operation of the beam to perform their measurements. We have designed and implemented a system to capture, store and deliver this common beam data to all of the neutrino experiments in real-time. The solution that we designed and built is a robust, high reliability, high performance system that is capable of providing both real-time and historic beam conditions data to the experiments at different stages in their data acquisition and analysis chains. This system is currently being integrated into the online data collection, online monitoring and off-line data processing for each of the experiments. The presentation will cover the design and implementation of this system, its interfaces.

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