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Overview of the Preliminary Geodetic and Alignment Concepts for the LBNE Project

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In the context of today's global interest in the neutrino research programs, with special emphasis on long baseline neutrino oscillation experiments, the LBNE project at Fermilab receives special attention as the world's highest-intensity neutrino beam to be sent more than 1,200 kilometres straight through the earth to the largest particle detectors ever built deep underground in South Dakota's DUSEL laboratory.

This paper presents an overview of the concepts and the proposed methodology to implement the geodetic and industrial alignment procedures to support the construction, installation, and alignment of the LBNE particle beam line and the DUSEL detectors.

Primary author: Dr BOCEAN, Virgil (Fermilab)

Presenter: Dr BOCEAN, Virgil (Fermilab)

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