

Abstract Submitted
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Fitting Methods in the Nab Experiment¹ WENJIANG FAN, Univ of Virginia, NAB COLLABORATION — The Nab collaboration aims to measure the electron-neutrino correlation parameter a with a relative uncertainty of about 10^{-3} , and the Fierz interference term b with absolute uncertainty of 3×10^{-3} at the Spallation Neutron Source (SNS). In Nab, a is determined by combined precise determinations of the electron energy and the proton time-of-flight. In this talk, we will present a fitting method to analyze a and its uncertainties, as well as specific techniques developed to increase the fitting performance based on experimental scenario.

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Wenjiang Fan
Univ of Virginia

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