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Binned log-likelihood template fitting with T2K

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When performing neutrino cross section extractions, it is desirable to avoid dependence on the interaction model used in Monte-Carlo generation. Log-likelihood template fitting is a method which can be used to explore the input parameter space and find the best ways of describing data. This method has several advantages, including straightforward background constraining and informative diagnostics. This talk will explore the techniques used in a cross section extraction performed with a binned maximum log-likelihood method in the context of a new ongoing ν_e CC single-pion production cross section analysis at T2K.

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