Contribution ID: **103** Type: **not specified**

Evaluating Neural Network Uncertainty Estimation with Inconsistent Training Data

Thursday 9 November 2023 14:30 (15 minutes)

Neural Networks coupled with a Monte Carlo method can be used to perform regression in the presence of incomplete information. A methodology based on this idea has been developed for the determination of parton distributions, and a closure testing methodology can be used in order to verify the reliability of the uncertainty in the results.
A relevant question in this context is what happens if the uncertainty of the input data is incorrectly estimated in the first place. We investigate this issue by a suitable adaptation of the closure testing methodology.

Author: DE CRESCENZO, Giovanni

Presenter: DE CRESCENZO, Giovanni

Session Classification: Uncertainties, Calibration & Theory