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Can we alleviate the tensions using ANN

Sunday, 11 September 2022 17:00 (10 minutes)

The prospect of nonparametric reconstructions of cosmological parameters from observational data sets has been a popular topic in the literature for a number of years. This has mainly taken the form of a technique based on Gaussian processes but this approach is exposed to several foundational issues ranging from overfitting to kernel consistency problems. In this talk, I will discuss the possibility of using artificial neural networks (ANN) to reconstruct late time expansion and large scale structure cosmological parameters.

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