2025 天文年會 (ASROC Annual Meeting)



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Noise Subtraction using Machine Learning on the Gravitational Wave Data

Saturday, May 17, 2025 4:45 PM (15 minutes)

Now we are in the O4 run of the LIGO-Virgo-KAGRA (LVK) collaboration. Many machine learning techniques are being applied on the detection and data analysis on Gravitational Wave (GW) data. In this talk, I will introduce the current status of the noise subtraction method DeepClean in O4 run and how DeepClean and other machine learning techniques on the detection and parameter estimation of the GW signals of the Compact Binary Coalescence (CBC) events will work together as a whole machine learning pipeline.

Section

Cosmology

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