

Cosmological Applications of Truncated Marginal Neural Ratio Estimation

jeudi 21 avril 2022 16:10 (15 minutes)

I will describe some applications of Truncated Marginal Neural Ratio Estimation (TMNRE) to cosmological simulation-based inference. In particular, I will report on using SBI for CMB power spectra (based on <https://arxiv.org/abs/2111.08030>) and realistic 21cm simulations (work in progress). Along the way, I plan to discuss some thoughts on how to incorporate active learning scenarios with high-dimensional nuisance parameter spaces, as well as criteria we need to trust results generated via simulation-based inference.

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Classification de Session: Talks