Contribution ID: 49

Likelihood-approximations for large-scale CMB data

Friday, 13 August 2021 11:10 (15 minutes)

Upcoming large angular scale CMB surveys aim at measuring the scalar-to-tensor ratio r, to determine the energy scale of inflation, and the optical depth to reionization tau. To measure these systematics and noise dominated signals, flexible likelihood approximation techniques are required. We present novel methods from likelihood approximations to likelihood-free inference techniques and improved systematics modelling for CMB surveys.

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Session Classification: Junior Scientist Talks