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Blame it on RIO*

Friday, 26 October 2018, 16:00
Room AG69

The remarkable success of recent cosmology in pinpointing a consistent concordance model disconcertingly relies heavily on a postulated form of the spectrum of primordial seed perturbations presumed to arise from yet unknown ultra-high energy physics. Within the broad of paradigm of inflation (or other alternatives), there does not exist any compelling testable physics that can be invoked to bridle this functional degree of freedom. In the backdrop of our recent work addressing current disagreements in the estimates of key cosmological parameters, I review a decade and a half of sustained research program on empirically inferring and constraining the form of the primordial power spectrum.

*Rigged Inflationary Outcomes