

Fundamental physics in the cosmos: The early, the large and the dark Universe



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Stochastic Methods for Inflation Model Building

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Incorporating stochastic methods into the model building process can significantly improve our understanding of how to reliably compute predictions. In addition, as high energy physics models of inflation continue to improve, it is expected that they will become increasingly complex. This again makes the use of stochastic methods an appealing option, as they present a wealth of new tools for gaining analytic control. At the heart of both of these perspectives is the idea that we can take advantage of universal behaviour that emerges when a system becomes sufficiently complex.

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