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# 国台学术报告 NAOC COLLOQUIUM

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**Time: Wed. 2:30 PM, July 27 Location: A601, NAOC**

## Expansion History of the Primordial Universe

**Prof. Yi Wang**

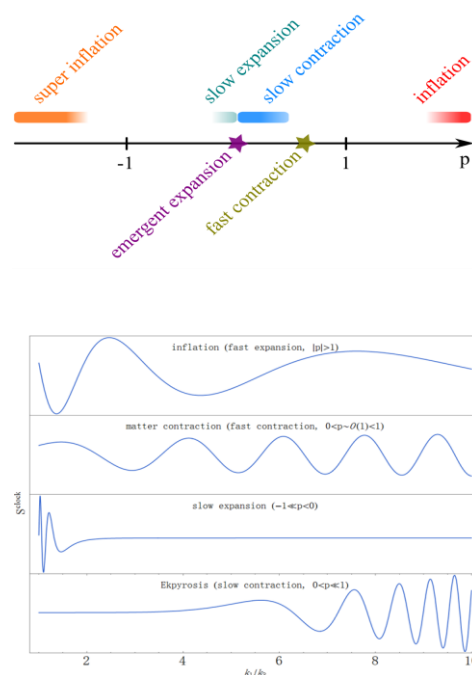
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Prof. Yi Wang got his PhD in 2009 at Institute of Theoretical Physics, Chinese Academy of Sciences. He was then postdoc at McGill University and IPMU at University of Tokyo, and the Stephen Hawking Advanced Fellow at University of Cambridge. He is now assistant professor at the Hong Kong University of Science and Technology.

### Abstract

We first briefly review the hot big bang cosmology and its horizon problem. Afterwards we introduce the early universe scenarios, namely, inflation, matter bounce, string gas and ekpyrosis. To distinguish those scenarios from observation (i.e. measure the evolution history of the primordial universe), two methods are introduced: primordial gravitational waves and quantum primordial standard clocks.



*All are welcome! Tea, coffee, biscuits will be served at 2:15 PM.*