

*Introduction to Inflation* – **Mehrdad Mirbabayi** (ICTP-Trieste, Italy)

In these lectures I will review: 1) The historical motivation behind the theory of inflation, 2) The classical dynamics of inflation, 3) The quantum fluctuations during inflation and their connection to observations. If time permits I will touch upon more advanced topics such as non-Gaussianities, eternal inflation, and the preinflationary phase.

Lecture notes:

<https://arxiv.org/pdf/0907.5424.pdf>

<http://indico.ictp.it/event/a12197/session/4/contribution/2/material/0/0.pdf>

To watch online:

<https://video.ias.edu/pitp-2011>