COURSE DETAIL

EARLY UNIVERSE
Country United Kingdom - England
Host Institution University of Manchester
Program(s) University of Manchester
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Physics
UCEAP Course Number 153
UCEAP Course Suffix
UCEAP Official Title EARLY UNIVERSE
UCEAP Transcript Title EARLY UNIVERSE
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description

In this course, students learn how to formulate the linear theory of structure formation in the CDM model, obtain solutions in simple model cases of a one component universe; explain the problems of big bang cosmology and the way to solve them in inflationary theory; calculate basic cosmological parameters in inflationary slow roll models; indicate the relations of the Cosmic Microwave Background Radiation and cosmological parameters; and discuss the evidence for an accelerating universe and the possible role of dark energy.

Language(s) of Instruction
English

Host Institution Course Number
PHYS40772

Host Institution Course Title
EARLY UNIVERSE

Host Institution Course Details
https://www.manchester.ac.uk/study/undergraduate/courses/2024/02021/mphys-physi...

Host Institution Campus
University of Manchester

Host Institution Faculty
Physics

Host Institution Degree

Host Institution Department

Course Last Reviewed
2023-2024

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