



UNIVERSITÀ
degli STUDI
di CATANIA



DIPARTIMENTO DI FISICA E ASTRONOMIA
“ETTORE MAJORANA”

DOTTORATO DI RICERCA IN FISICA
CICLO XLII A.A. 2026/2027

Insights on Primordial nucleosynthesis

2 CFU

Teaching staff

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Reception hours: Thursday 9-11 upon student request

Program of the course:

- Introduction and Big Bang Chronology. Related observable.
- Relic Nuclides observed: deuterium, helium and lithium.
- The Big Bang Nucleosynthesis network: generalities and main features.
- Calculating primordial elements yields from experimental reaction rates: the PRIMAT program. Examples
- Open questions and perspectives

Bibliography:

Scientific paper and slides provided by the teacher