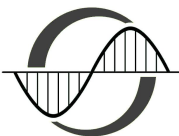




UNIVERSITÀ
degli STUDI
di CATANIA



DIPARTIMENTO DI **FISICA E ASTRONOMIA**
“**ETTORE MAJORANA**”

DOTTORATO DI RICERCA IN FISICA
CICLO XLI A.A. 2025/2026

Insights on Primordial nucleosynthesis

2 CFU

Teaching staff

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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