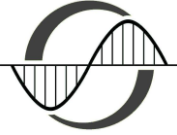




UNIVERSITÀ
degli STUDI
di CATANIA



DIPARTIMENTO DI FISICA E ASTRONOMIA
“ETTORE MAJORANA”

DOTTORATO DI RICERCA IN FISICA
CICLO XXXIX A.A. 2023/2024

Neutron induced nucleosynthesis: from stars to laboratories

2 CFU

Teaching staff

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Program of the course:

- 1) Nuclear reactions in stars: a recall on basic tools
- 2) Neutron induced reactions
- 3) Neutron sources and neutron poisons
- 4) s-process and r-process nucleosynthesis
- 5) Experimental difficulties and possible solutions

Bibliography:

Iliadis C., Nuclear Physics of Stars, Wiley (2015)

Recent research papers will be suggested to cover specific topics of this rapidly evolving field.