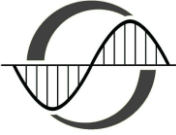




UNIVERSITÀ
degli STUDI
di CATANIA



DIPARTIMENTO DI FISICA E ASTRONOMIA
“ETTORE MAJORANA”

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

TITLE

Advanced topics in nuclear astrophysics

2 CFU

Teaching staff

Name Surname: Marco La Cognata

Email: lacognata@lns.infn.it

Office: LNS

Reception hours: upon request

Program of the course:

The R-matrix method in nuclear astrophysics

1. Basic theory
2. Applications to nuclear astrophysics
3. Hands-on session
4. R-matrix and indirect methods

Bibliography:

1. Scientific paper and slides provided by the teacher
2. Iliadis C., Nuclear Physics of Stars, Wiley (2015)