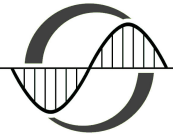




UNIVERSITÀ
degli STUDI
di CATANIA



DIPARTIMENTO DI FISICA E ASTRONOMIA
“ETTORE MAJORANA”

DOTTORATO DI RICERCA IN FISICA
ANNO ACCADEMICO 2019/2020

TITLE

Physics and Astrophysics of Neutron Stars

2 CFU

Teaching staff

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Reception hours: Mar-Mer, 14.30-16.00

Program of the course:

Lect. 1. Neutron Stars : a general overview. **Lect. 2.** Structure and EoS of the inner crust. **Lect. 3.** The structure of the inner core. **Lect. 4.** The nuclear many-body problem. **Lect. 5.** QGP in neutron stars. **Lect. 6.** Gravitational wave astronomy.

Each lecture lasts 2 hours.

Bibliography:

L. Rezzolla, P. Pizzochero, D. I. Jones, N. Rea, and I. Vidana, “The Physics and Astrophysics of Neutron Stars”, Astrophysics and Space Science Library 457, (2018), Springer Berlin.