

Compact Object Astrophysics

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Contents

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Introduction

Tuesdays and Wednesday at 14.30 PM in room P1A, Paolotti building. 22 people.

This course overlaps with “Computational Astrophysics” by professor Mapelli.

The examination is an oral one, done either online or live.

We start with a brief overview of the final fates of massive stars. We have white dwarfs, neutron stars and black holes under the category of “compact objects”, but white dwarfs are not really that compact.

We then discuss accretion onto compact objects, and neutron stars. An open question: what is the EOS of ultradense neutron matter?

“Accretion power in astrophysics”, “The physics of Compact Objects”, “Astrofisica Relativistica I & II”, “Astrofisica delle Alte Energie”.