

Introduction to neutron stars

Monday 15 November 2021 11:15 (2 hours)

In this lecture, I will cover the basics of neutron stars and pulsars as astrophysical objects and physics laboratories. Content of the lecture will brush off the following elements 1) a brief history of neutron stars and pulsars, 2) simple neutron star model (i.e. basic equation of state and structure), 3) simple pulsar model and observations (lighthouse model, \dot{P} - B -field/ \dot{E} , radio timing/searching), 4) physics laboratories (distance mapping, gravity/relativity tests, binary evolution).

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Session Classification: Introduction to Neutron Stars