

## Appunti di Fisica '25

**29 Ottobre ore 16:00**

Sala seminari, CNR-IPCF

### The JUNO Experiment

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The JUNO experiment (Jiangmen Underground Neutrino Observatory) is a gigantic liquid scintillator neutrino detector built in southern China, with a size of 20,000 tons. Its primary goal is to determine the neutrino mass hierarchy, as well as to perform extremely precise measurements of the parameters governing the oscillation phenomenon between different types of neutrinos and to carry out a substantial number of astroparticle studies.

During the seminar, the capabilities and physics objectives of the experiment will first be presented, followed by an overview of the various systems and subsystems, the computing infrastructure, and finally will be presented an outline of the concrete prospects for results achievable in the short and medium term.