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Xuzhou

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High Precision Neutrino Oscillation (JUNO experiment)

HAN Yang

Supervisor: CABRERA Anatael

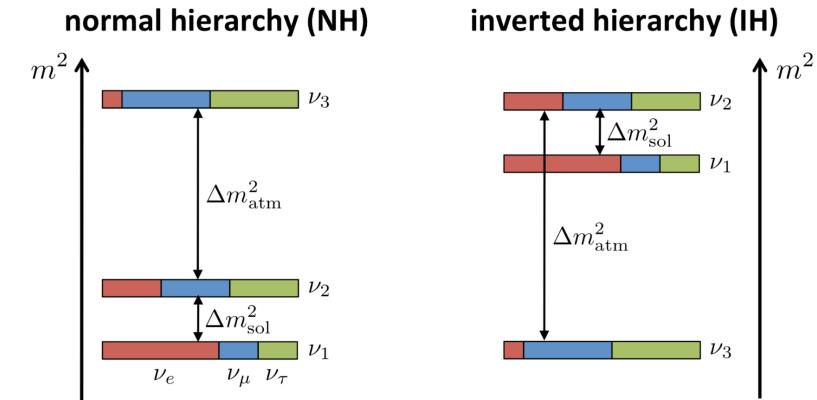
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JUNO



Jiangmen Underground Neutrino Observatory



Primary purpose:
Mass Hierarchy Identification

Other purposes:
 θ_{12} , Δm^2_{21} , Δm^2_{ee} high precision measurement,
 SN neutrino, solar neutrino, atmospheric neutrino,
 geoneutrino, sterile neutrino.....

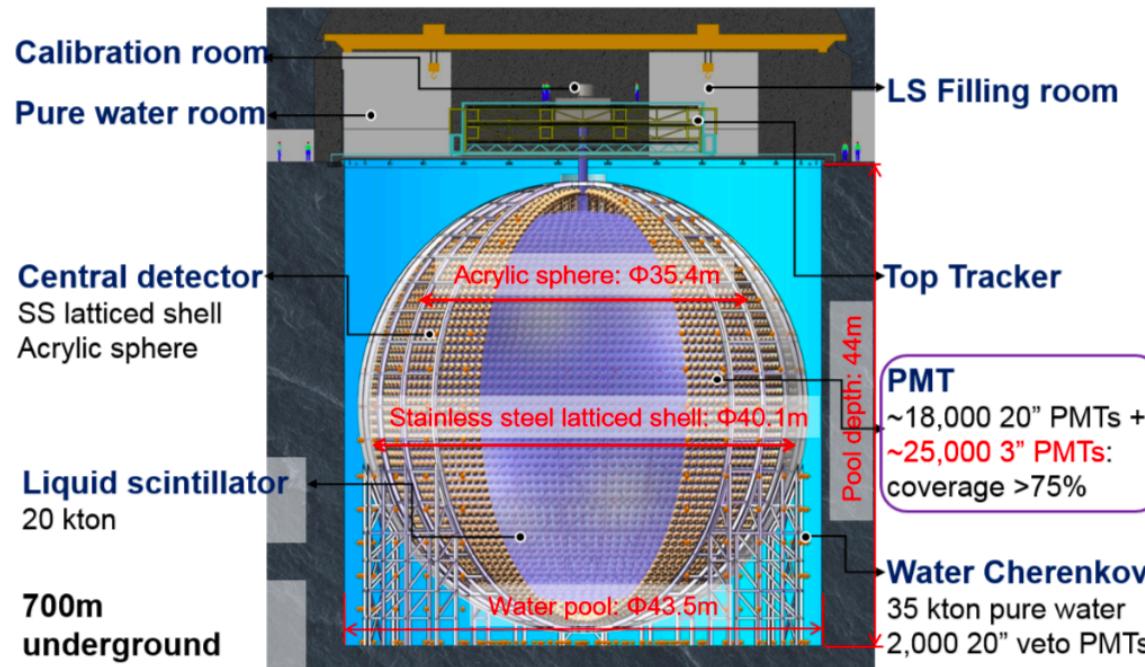
By measuring
reactor neutrino
spectrum with very
high precision

High Precision Measurement

Require

High resolution of the detector

Better than $3\%/\sqrt{E(MeV)}$ for JUNO



My work:
Develop double calorimetry.

Optimize θ_{12} , Δm^2_{21} high precision measurement.

Data analysis & Likely earliest high precision measurements of JUNO

Under construction now.
Start taking data from 2020.