Jiangmen Underground Neutrino Observatory (JUNO) is designed to determine the neutrino mass hierarchy via measurement of reactor neutrino energy spectrum with 3% F/E relative energy resolution. Jiangmen site (China) where the JUNO detector is ~53 km from Nuclear Power Plants giving a total power of about 36 (26) GW. It will start data taking from 2020 and the detector will be located about 700 meters underground.

**New complementary Method**

**F- estimator**

\[ F = \sum \Delta^i \cdot \frac{1}{\sum \Delta^i} \]

\[ \Delta^i = n_{\text{true}} - n_{\text{false}} \]

- **Oscillation Parameters**
- **Baseline dependence**

**Good, but ...**

*Alternative method to extract MH*
*Define new estimator “F”*
*Study F-estimator dependences*

*Check convolutions*
*Get MH sensitive*
36 GW / 5 years / Juno detector