

## Radioactive background control for the JUNO experimental setup

The Jiangmen Underground Neutrino Observatory (JUNO) is a 20 kton multiple-purpose experiment with the primary goal of determining the neutrino mass hierarchy. To reach the needed physics sensitivity it is required to reduce the single trigger count rate to less than 10 Hz in the fiducial volume. Therefore, it is crucial to carefully select the radiopurity of all materials used to build the detector and to keep under control the environmental background. In this poster we present the current investigations on the impurity concentration of the various detector components and the expected background count rate in the energy region of interest.

### Authorship annotation

on behalf of the JUNO collaboration

### Session and Location

Monday Session, Poster Wall #185 (Ballroom)

### Poster included in proceedings:

yes

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**Track Classification:** Poster (participating in poster prize competition)