

Title: Ultra-Pure Liquid Scintillator for JUNO and Beyond

Abstract:

This conference report provides an overview of the JUNO experiment, highlighting the specific requirements and challenges associated with the utilization of liquid scintillator. The report focuses on the development process of the ultra-pure liquid scintillator, as well as the construction and commissioning status of the production equipment. Preliminary results are presented, along with future plans for the project. Furthermore, the report explores the potential applications of ultra-pure liquid scintillator in various radiation detection fields, outlining its prospects for future research and development.