

Reactor Neutrinos Overview

Wednesday, May 11, 2022 2:50 PM (20 minutes)

Nuclear reactors have played a key role in advancing the knowledge regarding neutrinos. For example, the first detection of a neutrino used a nuclear reactor as the source. Moreover, recent reactor neutrino experiments found clear evidence of neutrino oscillations and opened up the parameters' measurement precision era. There is a rich physics that we can explore with reactor neutrinos, and for the first half of this talk, I will give an overview focusing on the most recent results achieved through the inverse beta decay reaction. Additionally, in the last part, I will discuss an exciting new technology for positron tagging that has the potential to be a game-changer in the field.

Presenter: BEZERRA, Thiago (University of Sussex)

Session Classification: Neutrino Oscillations - Parallel

Track Classification: Neutrino Oscillations