

ASP2014

Report of Abstracts

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Neutrino Physics 1 2

Abstract content

Status: These two lectures will explore the properties of the neutrino, how the particle is observed in nature, and a historical context for its discovery, as well as some of the experimental techniques that are used to study its properties. There will be some reference to the standard model that I assume will have been covered in the first week of lectures. In this concluding section, I will focus on current neutrino physics, oscillations, mass, exotic states, etc., the current state of research, and some of the experimental programs that are in place or planned, to further study specific measurable properties of the neutrino. This includes the general details of accelerator based neutrino beams and detectors, hadron production, and flux. I should not overlap with the accelerator lectures other than to present the technique of neutrino beams production from the decay of focused pions and kaons.

Summary

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Submitted by **MUANZA, Steve Guy** on **Sunday 03 August 2014**