

CU Physics Department Particle Seminar

Wednesday, April 20, 2011 705 Pupin Hall 1:00 PM

The search for θ_{13} in accelerator and reactor neutrino oscillation experiments

Neutrino experiments are now taking data or being built to measure the last unknown neutrino mixing angle, θ_{13} . Accelerator and reactor experiments involved in this search use different experimental techniques and face distinct challenges. This talk will explain how an oscillation measurement is done and what is needed from each type of experiment for success. A golden era in the search for θ_{13} is about to begin and we will have results in the next 5 years. These results will determine the course of future neutrino research in particle physics.



Camillo Mariani, Columbia University