

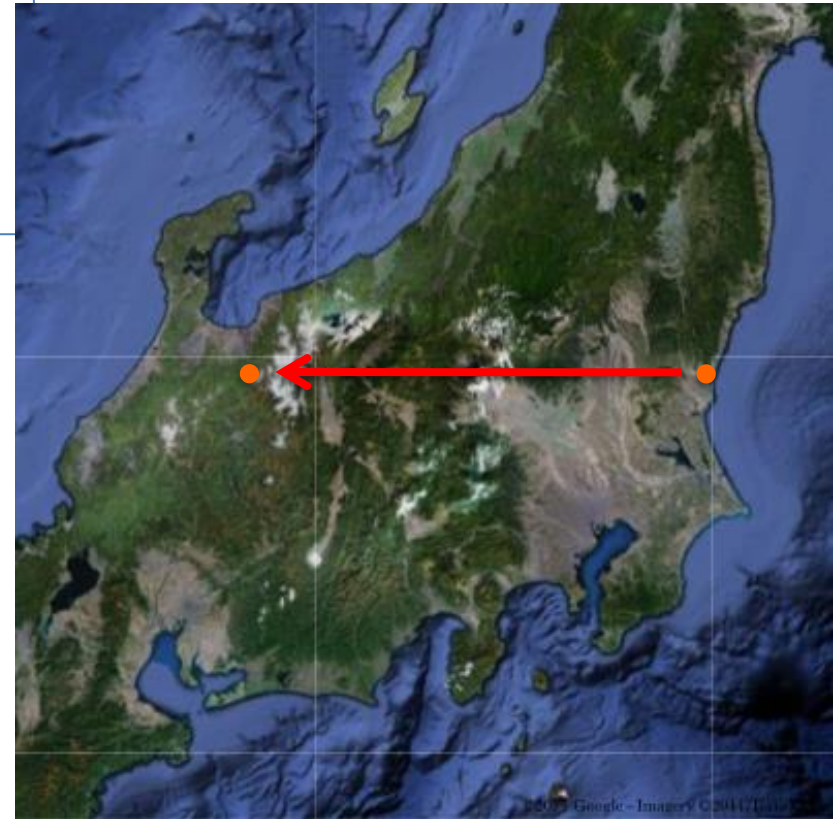
Neutrinos: a window on the universe

物理談話会 5月21日(火) 16:00-17:00

講師: Kendall Mahn (TRIUMF)

演題: 「ニュートリノ: 宇宙に開いた窓」
(-最新のT2Kニュートリノ振動実験の結果-)

場所: コラボレーション棟3Fコラボ室



Abstract: The observation that neutrinos change from one flavor to another as they propagate, or "neutrino oscillation", has been one of the most surprising results in particle physics in the last two decades. Through neutrino oscillation, we now know neutrinos have a small but non-zero mass, which has wide ranging implications for astrophysics, and cosmology. The T2K experiment studies neutrino oscillation by using a >99.5% pure beam of muon neutrinos sent through Japan. This seminar will describe the recent T2K results on electron neutrino appearance and muon neutrino disappearance in a muon neutrino beam, the consequences for the origin of neutrino mass and implications for the future of neutrino physics.