UNBC UNIVERSITY OF NORTHERN BRITISH COLUMBIA

Department of Physics Seminar

Neutrino Physics

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Abstract:

I will discuss neutrino oscillations, Dirac and Majorana mass, and the see-saw mechanism. The Standard Model of elementary particles contains massless neutrinos, but neutrino oscillations show that at least two neutrino types have non-zero mass. Consequently, the Standard Model needs modification to include neutrinos mass. As uncharged spin 1/2 particles, neutrinos can have Dirac mass, Majorana mass, or both. Particle physicists favour models in which neutrinos have both Dirac and Majorana mass, as this allows a see-saw mechanism to give neutrinos small masses.

+ Date
Wednesday
January 24, 2018

+ Time
2:30 – 4:00 P.M.

+ Location
Library Building
5-175

+ Contact
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Everyone welcome
Light refreshments served