

My research intends to study Beyond Standard Models in Fundamental Particle Physics through the investigation of neutrino mass generation mechanism. The study will help us find directions in the future experiment investigation at the Large Hadron Collider and see how neutrino collider experiments will interact with collider experiments.

Techniques used in study

Quantum Field Theory
Effective Field Theory
Supersymmetric Theory
Neutrino Mass Mechanism

Chia-Hung Chang, Associate Professor
Department of Physics
chchang@phy03.phy.ntnu.edu.tw

Background:

PhD in Physics, Harvard University

Funding: National Taiwan Normal University

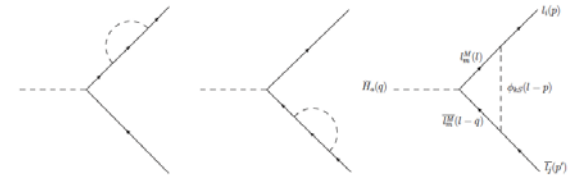
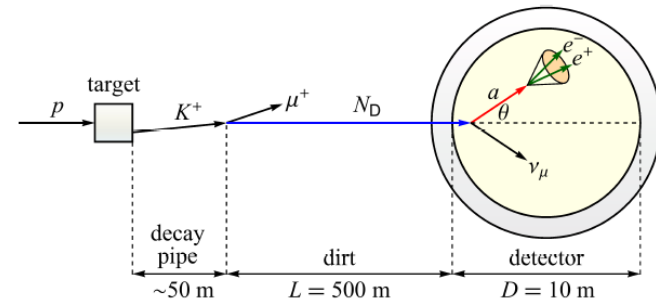


FIG. 2: One-loop induced Feynman diagrams for $\tilde{H}_0(q) \rightarrow l_i(p) + l_j(p')$ in EW-scale ν_R model.



Publications

- Explaining the MiniBooNE Anomalous Excess via Sterile Neutrino Coupling 2021; under preparation.
- Lepton flavor violating decays of neutral higgses in extended mirror fermion mode. Nuclear Physics B 910 (2016) 293–308
- Neutrino Masses in a 5D SU(3) TeV Unification Model Physics Letter B 558 92 (2003)

