Neutrino : the key to unclocking the secrets of the universe

Sin Kyu Kang
(Seoul National University of Science and Technology)

Abstract:

The lightest fermion particle, the neutrino, is currently a subject of great interest in the fields of nuclear and particle physics, cosmology, and astrophysics.

In particular, the discovery of neutrino oscillations implies that the standard model, which describes the fundamental interactions of nature, must be revised into a more fundamental theory.

In this colloquium, I would like to introduce the process by which the characteristics of neutrinos, which have been veiled, are revealed, and the possibility of exploring new physics through neutrinos and the role they can play in solving mysteries in the universe.