

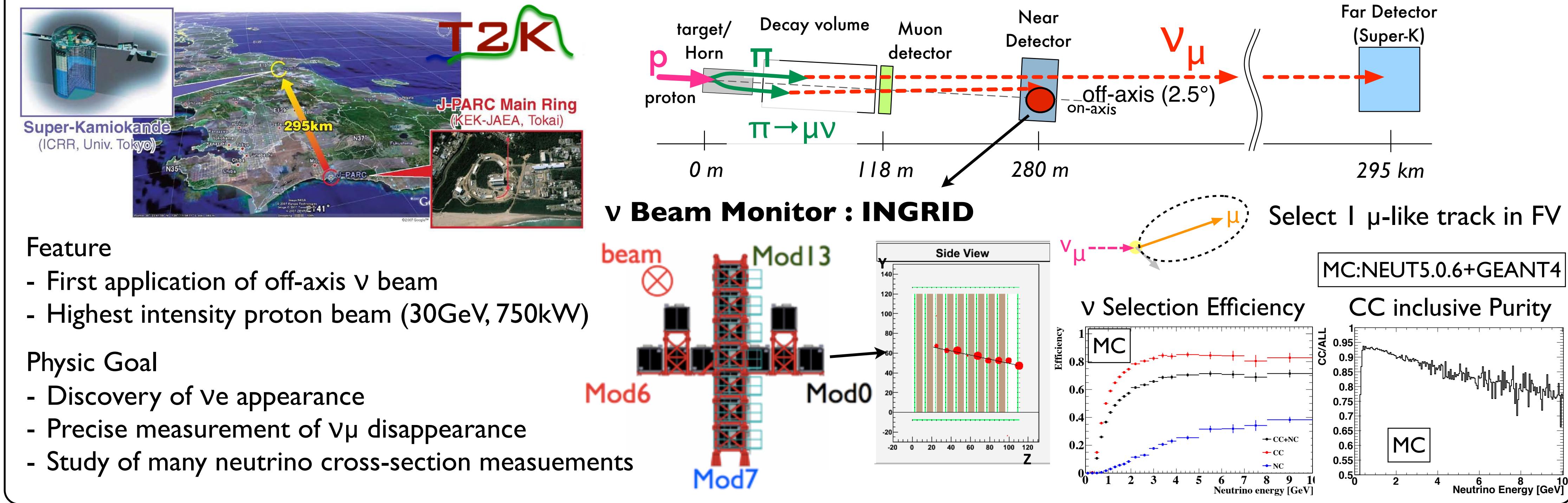
Measurement of CC inclusive cross-section on Iron in a few GeV neutrino beam at the T2K

Akira Murakami for the T2K collaboration

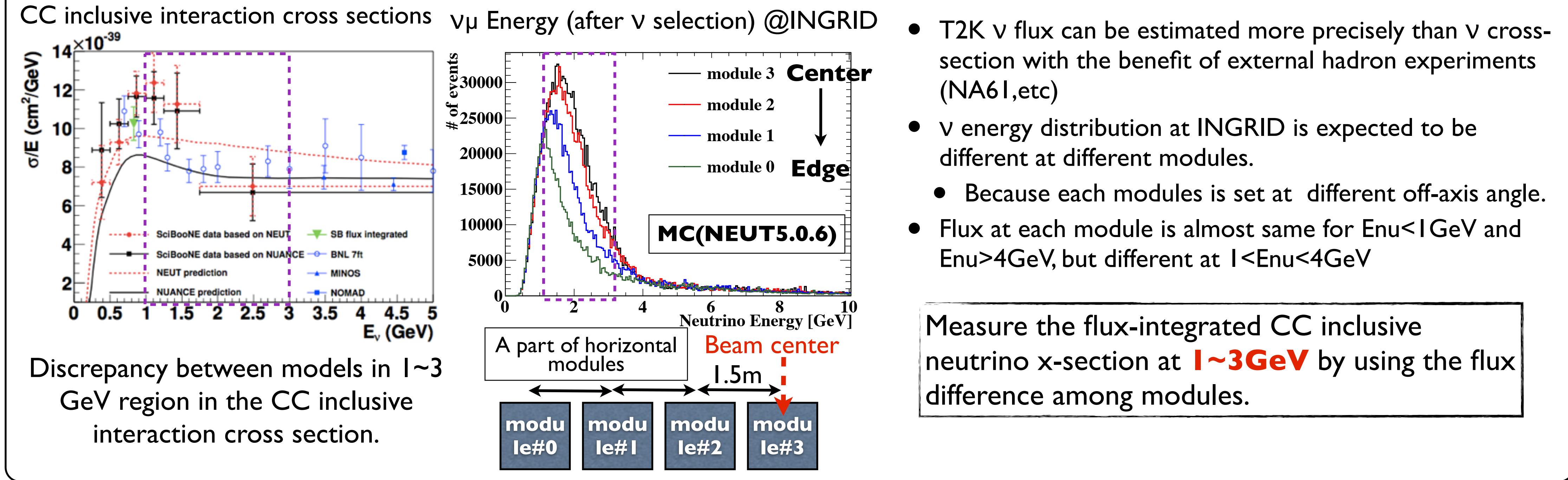
Abstract

In T2K, INGRID is on-axis neutrino beam monitor which composes with 14 identical neutrino detecting modules. The method of the cross-section measurement by INGRID is to take advantage of the difference of flux at each modules. The energy spectrum of the neutrino flux at each modules is expected to be different only in the 1 GeV to 3GeV range from the simulation. By the toy MC with statistical error, the uncertainty of the cross-section in this region is found to become about 4%.

T2K experiment, INGRID



Motivation of CC inclusive cross-section measurement at INGRID



Method of Cross-section Measurement by INGRID

