

# Cyclotron Colloquium, Friday July 27, 2012, at 2:00 pm

Room MIST 102 at the Mitchell Institute

Refreshment will be served at 1:45 pm

## *High spin resonances in hadron reactions*

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### Abstract:

(I) To understand the reaction mechanisms of the baryon/meson production processes, it is necessary to consider high spin baryon fields since many resonances in the mass of 2 GeV carry spin higher than  $3/2$ . In this talk, we will discuss how to introduce high spin baryons in the production mechanisms and discuss the role of high spin resonances in the production of Xi hyperon in photon-nucleon scattering.

( II) In the second part, the recently started Rare Isotope Science Project, which will construct the core facility of the Institute of Basic Sciences of Korea, will be introduced. This is the first large-scale nuclear physics accelerator in Korea and its aim is to explore the rare isotope physics. I will report mainly on the plan for the theory division in this project and in the Institute of Basic Sciences.