

# *RCNP SEMINAR*

Speaker      Prof. Yu-Ming Zhao (Shanghai Jiatong University)

Title            Nucleon Pair Approximation of the Shell Model:  
background and applications

Time&Date    March 26th (Fri), 16:00-

Place            Lecture room, 4th floor , RCNP, Osaka University

## Abstract

I would like to discuss the Pair Approximation of the Shell Model, including the history, milestones, applications, present situation, and the future, in particular, our recent efforts along this line. We formulated an efficient algorithm to calculate the matrix elements of the shell model Hamiltonian in terms of nucleon pairs, studied the validity of pair truncation, application of this model to a number of realistic nuclei. This approach will be the main subject of my group in the next few years.