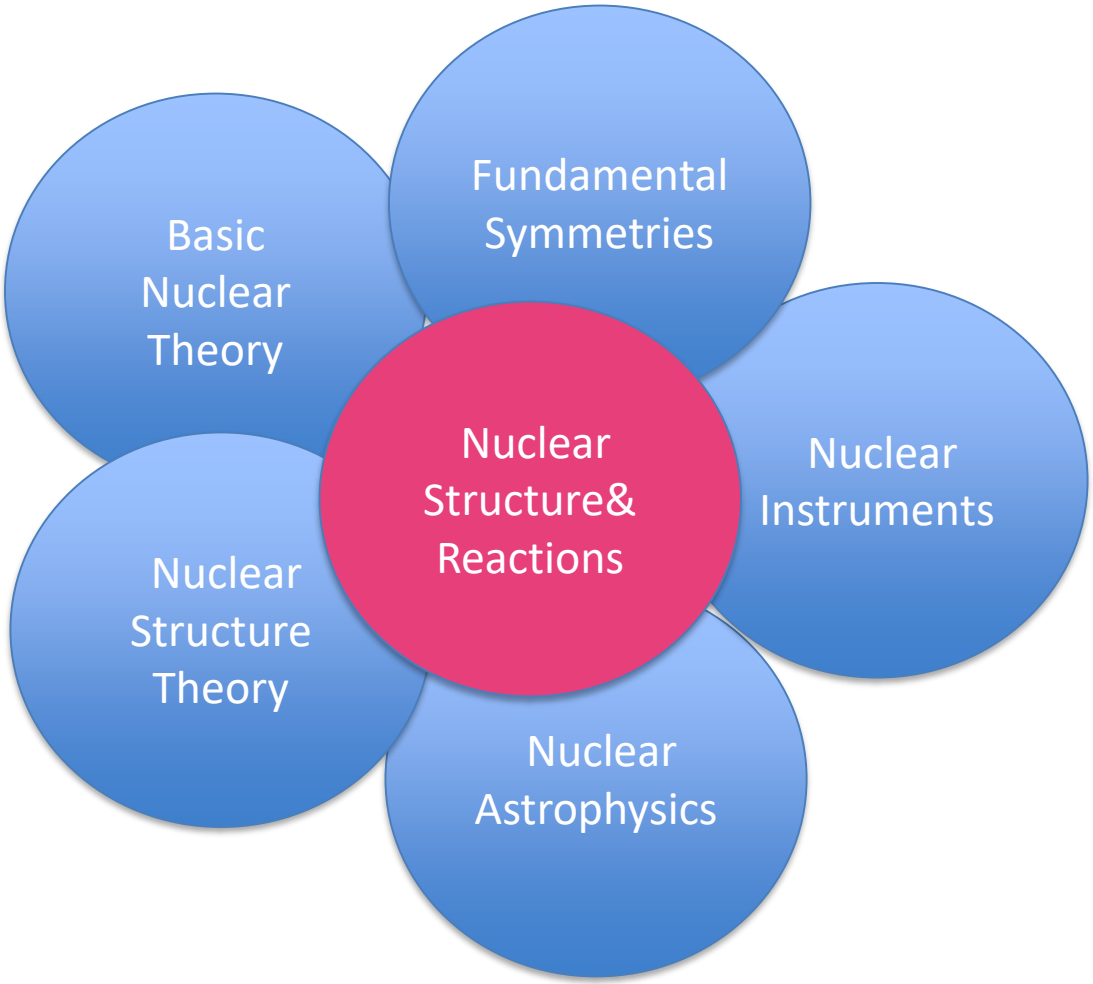
Nuclear Reactions& Nuclear Structure

Wolfgang Mittig, (Feng-Shou), Shaofei Zhu



Program (talks 10'+5')

- Northern Boundary of the "Island of Inversion" and Triaxiality in 34Si
  - C. Y. Niu (牛晨阳), School of Physics, Peking University
- Nuclear-Cluster Studies at PKU
  - Yang Liu, School of Physics, Peking University
- Study of exotic structure for the loosely-bound nuclei via transfer reactions at PKU
  - J. L. Lou, School of Physics, Peking University
- Nuclear structure studies using precision laser spectroscopy
  - Xiaofei Yang, School of Physics, Peking University
- The Applications of Direct Reactions in the Nuclear Structure Studies at High Spins
  - S. Zhu, Argonne National laboratory
- Tensor-force-driven shell evolution in the "west" of the double-magic 132Sn: Reduced πg9/2 - πg7/2 splitting
  - Z. Q Cheng, School of Physics, Peking University
- Low Energy Reaction Experiment
  - Huiming Jia, CIAE
- Study on sub-barrier fusion reactions and multi-nucleon transfer reactions
  - Peiwei Wen, CIAE
- Nuclear Reactions (with RIBs)
  - Chengjian Lin, CIAE
- Gamma Spectroscopy of N~Z nuclei towards 100Sn
  - Zhong Liu, IMP

Collaborative projects

- Start and Initiate a colloboration on the projecti of “Charge Exchange reactions”, such as in exchange of detectors and manpower, with the needs of beams and theoretical support.
- Short period of scholar exchange programs: some months? With well defined projects
- Complete spectroscopy of one nucleus by complementary methods from both sides
- Organizational mechanism of submitting proposals to different facilities
- Collaborative development and test of detectors