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Nuclear and Particle Physics Research in Thailand

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Abstract

The Nuclear and Particle Physics Research Unit was founded by the school of physics, Suranaree University of Technology (SUT) in year 2000. Later in 2007, our group has joined the Research Center in Computational and Theoretical Physics which is financed by the Thailand Center of Excellence in Physics (ThEP Center). Suranaree University of Technology is one of the nation's leading research universities with particular strengths in science and technology. The school of physics was ranked first among all universities in Thailand by the Thailand Research Fund (TRF) in year 2008. Our unit itself is located in the north-eastern part of Thailand, about 250 km from Bangkok with the main interests as follows:

1. Hadron physics which include hadron interaction, exotic atoms, chiral perturbation theory and chiral quark models. In this area, we have collaborated with groups from University of Tübingen, GSI from Germany, TRIUMF from Canada and Institute of High Energy Physics (IHEP), China.
2. Heavy ion collision based on the QMD and UrQMD model to study hypernuclei, kaon and sigma meson production with exchange visits from Johann Wolfgang Goethe Universität, Germany and China Institute of Atomic Energy (CIAE) Beijing, China.
3. Lattice QCD to extract information about gluon and ghost propagator in Coulomb gauge at zero and finite temperature. In this topic we have collaborated with a group from University of Tübingen, Germany.

Past Activities

We hosted the third Asia-Pacific Conference on Few-Body Problems in Physics (APFB05) from July 26 to 30, 2005.

Keyword: Thailand, Suranaree University of Technology, Nuclear and Particle Physics, Hadron Physics, Heavy Ion Collisions, Lattice QCD

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