Advances and perspectives in computational nuclear physics

Sunday 5 October 2014 - Tuesday 7 October 2014

Hilton Waikoloa Village

Scientific Programme

Topics in computational nuclear physics and related areas include

Hadron strucuture and scattering in lattice QCD

Baryon-baryon interaction

Lattice QCD at finite temperature and finite density

Structure and reaction of light nuclei

Effective interaction and nuclear structure

Density functional approaches to nuclear structure and reaction

Nuclear equation of state for asymmetric nuclear matter

Supernovae - neutrinos and nucleosynthesis

Neutron Star Mergers - general relativity and the nuclear EOS

Rapid process and origin of heavy elements

Computational approaches to cold atoms and condensed matter