

RBRC Workshop on Lattice Gauge Theories 2016



Wednesday 09 March 2016 - Friday 11 March 2016

Brookhaven National Laboratory, Physics Department

Scientific Programme

The progress of supercomputers is so intense that humans nowadays can simulate realistic worlds of nature with certain accuracy in countless scientific and engineering areas. In recent years, we have been experiencing the petaflop era of computing. Countries have invested substantial amount of fund and developmental efforts onto the state-of-the-art supercomputing technologies. Scientists have observed the results from the cutting-edge machines flourish. Especially, these powerful supercomputers enable the lattice QCD community to quantitatively tackle numerous fundamental physics problems together with significant progresses in high-energy experiments, such as LHC. Now that the development of the supercomputers is being accelerated toward next exaflop machines, researchers all over the world should gather, summarize current physics results and discuss the coming exascale computing.

The topic of this workshop consists of broad range of subjects on the lattice QCD, including theoretical aspects, various large-scale numerical calculations, simulation algorithm and software environmental developments, where all these achievements are essential to successfully weave up the future lattice QCD.

