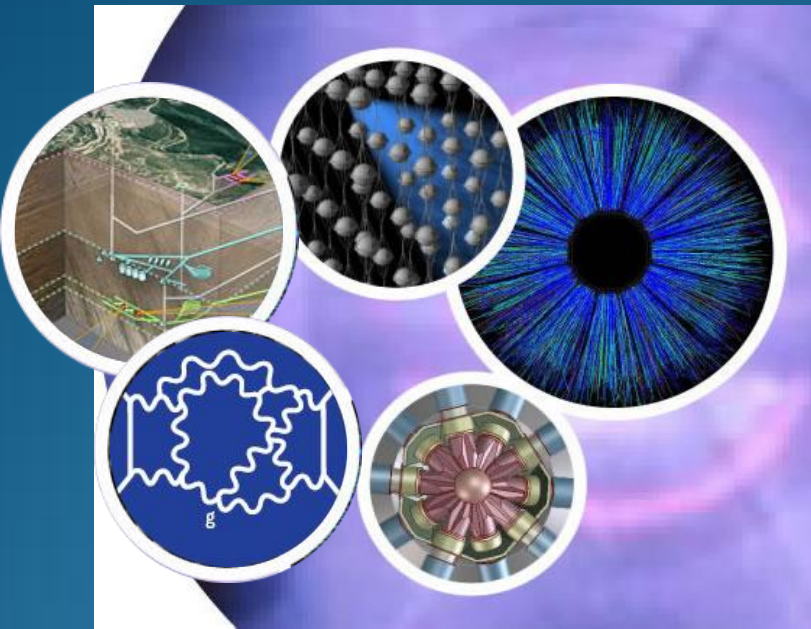


Nuclear Science Division Colloquium

Nuclear Physics from Lattice QCD (The Anticipated Impact of Exa-scale Computing)



Prof. Martin Savage
University of Washington

Wednesday
December 1, 2010
11:00 am
Bldg. 50-Auditorium

Abstract: With the continued deployment of computational resources of increasing capability and capacity, the numerical technique of Lattice Quantum Chromodynamics (QCD) is moving toward becoming a practical tool with which to calculate the properties and interactions of strongly interacting particles such as the nucleons and hyperons. It will allow for the quantification of uncertainties in quantities of importance in nuclear physics, such as reaction rates and the composition of hadronic matter, and provide a reliable method with which to calculate processes that are inaccessible to experiment. I will discuss the progress that is being made toward achieving this objective.



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