CQSE Special Seminar

Aug. 15, 2013 (Thursday)

TIME   Aug. 15, 14:30 ~ 15:30
TITLE   A Large Scale Simulation on a GPU Cluster
SPEAKER Dr. Xiao-Min Tong
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              Japan
PLACE   Rm716, CCMS & New Physics Building, NTU

Abstract

In this talk, I will briefly introduce the structure of HA-PACS, a GPU cluster with more than 1000 Tesla M2090 GPUs and its future plan. Then, I will present our time-dependent method in laser material interactions—a hybrid method of using openmp + MPI + cuda C in Fortran. Finally, I will show our recent research on the enhanced multi-scattering and intra-half-cycle interferences in the photoelectron angular distribution of atoms ionized in mid-infrared laser fields, mainly focus on how to dig out the physical information and analyze mechanisms from the numerical simulation.