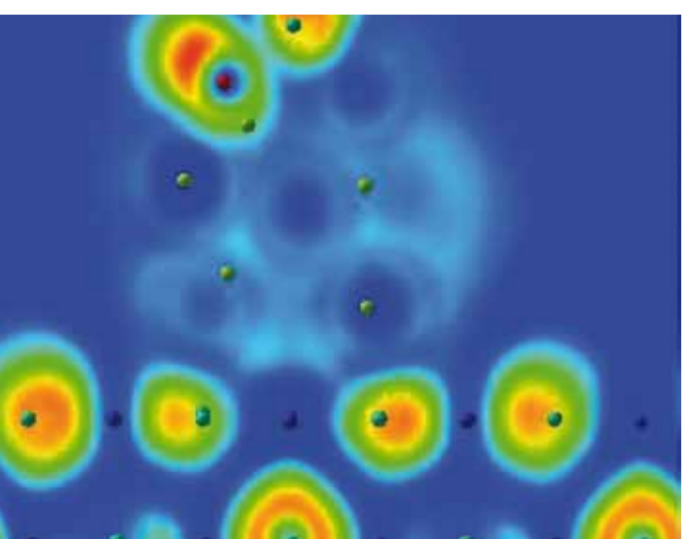
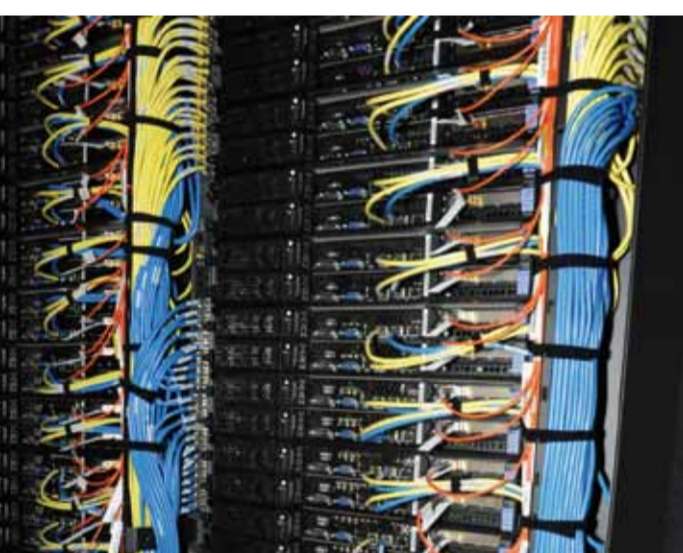
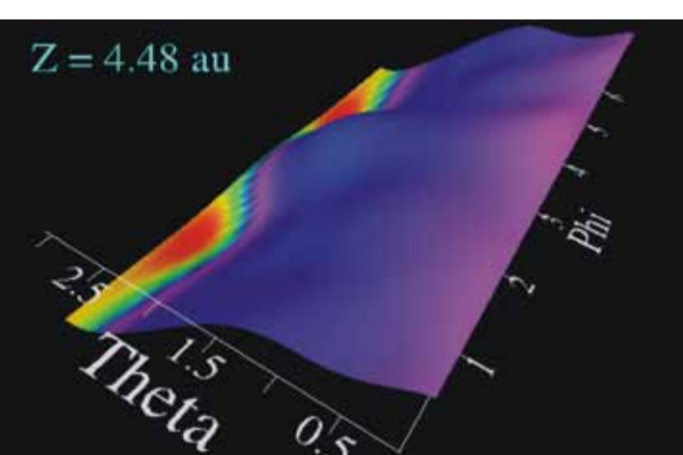


Summer School

August 25 – September 5, 2014,
University of Oldenburg, Germany

MODERN COMPUTATIONAL SCIENCE COMPUTATIONAL QUANTUM CHEMISTRY



Fundamentals:

second quantization, basis sets and integrals, the Hartree-Fock method, theoretical surface science, software engineering and parallelization strategies, basic numerical optimization

Theory and Applications:

surface photochemistry, experimental surface science, stochastic optimization, code optimization for quantum chemistry

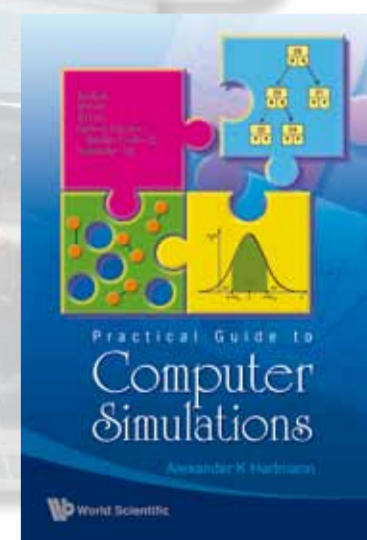
High Performance Computing Exercises:

parallelization strategies (MPI and openMP), code optimization for non-parallel applications

*for advanced (including PhD) students
in the Natural Sciences, Mathematics, Informatics, and Engineering*

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Fee (including accommodation,
breakfast, dinner, course material,
and, for DAAD grants, travel support):
100 € (supported students)



Organization

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Universität Oldenburg