

CUSTOMER PROJECT REFERENCE:

Max Planck Institute for Biophysical Chemistry, Göttingen



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MAX PLANCK INSTITUTE
FOR BIOPHYSICAL CHEMISTRY
(KARL FRIEDRICH BONHOEFFER INSTITUTE)

Project volume: approx. 400.000€

Project time: 2016/2017

Project description: GPU cluster based on the latest Intel® Xeon® processor and NVIDIA® GPU architecture with a particularly high packing density for “Theoretical and Computer-Assisted Biophysics.”

Project realization: The current version of the delivered GPU cluster consists of six full 19” racks with 241 high performance GPU nodes. Each node is designed as a specialized built-to-order solution for GPU operations with dual-slot NVIDIA® GTX graphics cards in a 1U chassis. For ideal CPU/GPU performance and cost/benefit ratio, the latest Intel Xeon E5-2630 v4 series processors, as well as the NVIDIA GTX 1070 and NVIDIA GTX1080 from the latest Pascal graphics architecture (which has a very high single precision performance of 6.5 TFLOPS/GTX 1070 respectively 8.2TFLOPS/GTX 1080) are used in this project.



*Ultra compact:
1 active-cooled Dual-
Slot GTX-GPU in 1U...*



*Rack 1 + 2 each have 42x MUSTANG® systems
systems/ SuperMicro BTO 1U Super Server incl. 1x E5-
2630v4+NVIDIA GTX 1070/GTX 1080...*