

# Tutorial: HPC - Algorithms and Applications

## WS 13/14

Complete the following assignment (alone or in a group), the solution will be discussed in the tutorial this time.

### Worksheet 6: Shallow Water Equations in CUDA (2)

#### Assignment 1: Optimization of the SWE-CUDA kernels

Think of possible optimizations for the CUDA kernels of SWE:

- a) How could memory access in the kernels be improved?
- b) Is there a way to make the computation of the maximum wave speed faster?
- c) What else could be done?