Project

Daniel Lehmberg
Tord Kriznik Srensen
Vishal Sontakke

1 Possible topics

- advanced collision operator (e.g. MRT) and regularization
- boundary conditions
- sequential and parallel runtime optimizations
- LBM on GPUs
- moving objects
- heat/diffusion of substances in flow
- memory optimization (LBM)
- multiphase/multicomponent flows

2 Strategy to find the right topic

1. list all topics
2. think of and state a rough idea what the result of the projects would be (e.g. nice looking animation of a certain scenario, performance measure, etc.)
3. select interesting/most promising topics (idea: each person names 2-3 topics of interest)
4. research literature for best 1-3 topics (better before than after we hand it in)
5. select topic that is interesting + has a good literature foundation