

Overview of Revision

The following changes have been applied to the original proposal:

- Clarified in *Aims of the Project* that the code developed in the course of the proposed project is expected to run on a wide range of computing platforms and clusters to address the minor criticism by Reviewers A and C.
- Elaborated in *Status of Research* on differences to Boltzmann equations applied to other areas of research and why a straight-forward adoption of these ideas is generally not possible. This addresses the first weakness outlined by Reviewer B.
- Clarified typical execution times in the *Introduction* and provided a projection of computational resources in *Status of Research* to address the second weakness by Reviewer B.
- Slightly compressed discussion of the research institute's infrastructure in order to discuss ethical issues on the same page 18.
- Updated the list of publications for all project members.
- Minor rephrasing of some sentences in *Introduction*, *Aims of the Project*, and *Status of Research* in order to achieve proper page breaks. These changes do not change the meaning of the respective sentences and are only cosmetic.