



## Report on defence of dissertation thesis

Academic year: 2023/2024

**Student's name and surname:** Mgr. Ondřej Kincl  
**Student's ID:** 41550392

**Type of the study programme:** doctoral  
**Study programme:** Mathematical and computer modeling  
**Study ID:** 664257

**Title of the thesis:** Extension of smoothed particle hydrodynamics based on Poisson brackets  
**Thesis department:** Mathematical Institute of Charles University (306. • 32-MUUK)

**Language of the thesis:** English  
**Language of defence:** English  
**Supervisor:** doc. RNDr. Michal Pavelka, Ph.D.  
**Reviewer(s):** prof. Thomas Richter  
prof. Damien Violeau

**Date of defence:** 09.01.2024    **Venue of defence:** Praha  
**Attempt:** regular

**Course of defence:** The defence was conducted by the head of the committee Prof. Pokorný. He presented the candidate and then doc. Pavelka, the supervisor of the thesis, introduced the candidate's studies. After this, Mgr. Kincl presented the main parts of his thesis. The referees then presented the main parts of their reports and the candidate answered all questions posed by the referees. In the subsequent discussions, Prof. Skrbek, Prof. Málek, dr. Průša, doc. La Mantia and prof. Zeman asked further questions. The candidate answered all questions satisfactorily.

**Result of defence:** pass (P)

**Chair of the board:** prof. Mgr. Milan Pokorný, Ph.D., DSc. ....

**Committee members:** prof. RNDr. Vít Dolejší, Ph.D., DSc. ....  
doc. Dr. Marco La Mantia, Ph.D. ....  
prof. RNDr. Josef Málek, CSc., DSc. ....  
Mgr. Vít Průša, Ph.D. ....

prof. Thomas Richter .....  
prof. RNDr. Ladislav Skrbek, DrSc. ....  
prof. Damien Violeau .....  
prof. doc. Ing. Jan Zeman, Ph.D. ....