

I. IDENTIFICATION DATA

Title:	Detachment tomographic inversion study with fast visible cameras on the COMPASS tokamak
Author's name:	Michal Odložilík
Type of assignment:	Bachelor Project
Faculty:	Faculty of Nuclear Sciences and Physical Engineering (FNSPE)
Department:	Department of Physics (DP)
Supervisor:	Jordan Cavalier
Supervisor's affiliation:	Ústav fyziky plazmatu AV ČR, v.v.i.

II. ASSESSMENT OF CRITERIA

Work assignment and topic motivation	demanding
<i>Assess how demanding the assigned topic is. Brief introductory word on motivation for choosing the topic.</i>	
The topic was rather demanding as tomographic inversion of camera data is not simple to apprehend. It requires to understand the complexity of tomography and have programming skills. The subject of detachment is also not trivial.	
Fulfilling the assignment	fulfilled
<i>Consider whether the work submitted meets the assignment topic. Comment, if necessary, on items of the assignment not fully answered, or mention whether the scope of the assignment has been broadened. If student failed to fully treat the assigned topic, try to assess the importance, impact and/or the reasons for failings.</i>	
Michal fulfilled all he was asked to do. He did not extend the assignment.	
Student's effort and independent approach to the topic solution	excellent
<i>Assess whether student displayed constant effort while investigating the problem, whether they regularly consulted the issues and whether they attended consultations well prepared. Assess student's creativity and independence.</i>	
Michal was regularly visiting the IPP, asking questions and sending emails. He was proactive and accounting for advices. Not the most creative but really independent to perform given tasks.	
Professional standard	excellent
<i>Give your opinion on the professional standard of the work, application of course knowledge, references, and data from student's practice.</i>	
For a bachelor student, I am satisfied.	
Level of formality and of the language used	average
<i>Assess the use of scientific formalism, the typography and language of the work.</i>	
I think Michal could improve a bit on this. He could be more rigorous and precise on the used terms. I am sure he will improve over the years.	

Choice of references, citation correctness

excellent

Give your opinion on student's effort in utilizing references in their investigation. Characterize the choice of references and say whether all relevant sources were utilized. Verify whether all resource facts were properly distinguished from student's own findings and results, whether there was no breach of citation ethics, and whether all reference citations are complete and agree with the citation usage and standards.

In general, Michal was able to find his own references for writing some part of the thesis.

Further comments and assessment

Give your opinion on the quality of the main results obtained in the work, e.g. on the level of quality of theoretical results, or the applicability of the engineering and programming outputs of the solutions obtained, on publication activity, experimental skills, etc.

Rather good quality for a bachelor thesis

III. OVERALL ASSESSMENT AND SUGGESTED GRADE

Summarize all aspects of the work most influential for the overall assessment. If adequate, write questions to be answered by student during the defence of their work before the board.

I am very happy with the work of Michal, he is a skillful student, listening and capable of learning on his own. He performed quite some work, shown up regularly and is not a lazy person at all. His task regarding tomography of visible camera data was not trivial for a bachelor student but he handled it well. He understood most of the (complicated) concepts, did not hesitate to ask relevant questions when he could not follow. He has my full support.

Question:

What prevents to use the share view of RIS 1 and RIS 2 to make tomography with the two cameras? Why did you use only one camera (with toroidal symmetry) to perform the analysis?

Suggested grade:

Date: 3.8.2023

Signature:

