

DIPLOMA THESIS EVALUATION

Student's name and surname: Sudarshan Shamsundar Boob

Name of the diploma thesis: Experimental Investigation of the Continual Jet

Supervisor of the thesis: Ing. Petra Dančová, Ph.D.

1. Diploma thesis evaluation

Evaluation	excellent	excellent minus	very good	very good minus	good	failed
Meeting the goal and fulfilling task of the thesis				x		
Quality of conducted survey					x	
Methodology of solutions		x				
Expert level of the thesis			x			
Merit of the thesis and its potential applicability of results			x			
Formal and graphic level of the thesis				x		
Student's personal approach		x				

Mark x in the corresponding box.

Supervisor's final evaluation is based on his/her overall subjective evaluation.

Grading is stated literally in the article no. 5, neither by a number, nor by a letter.

2. Comments and remarks on diploma thesis:

Meeting the goal and fulfilling task of the thesis: First goal given in the official master thesis assignment form was fulfilled partially; I recommend performing deeper "the state of the art" of the solved problem (investigation of the axisymmetric nozzles). Third goal was fulfilled partially as the author did not perform any comparison of his results with other authors.

Quality of conducted survey: Deeper "the state of the art" was not performed; this is the reason why author did not compare his results with the literature.

Methodology of solutions: PIV system in configuration of Stereo-PIV and Tomo-PIV is correctly used; this configuration enables to evaluate the pressure field from measured velocities.

Expert level of the thesis: Author performed a lot of experiments. In this diploma thesis I miss deeper comments of his results.

Merit of the thesis and its potential applicability of results: This thesis brings results of Stereo- and Tomo-PIV experiments, where the velocity results were used for pressure evaluation. There is no comparison of Stereo- and Tomo-results together in form of velocity/pressure profiles. There is no comparison of author's results with the other authors. His results presented as pictures and graphs have unreadable scales and units, so it is not clear what these results actually express.

Formal and graphic level of the thesis: Pictures taken from the other literature were cited, the text included in these pictures was unreadable. Scale in figures and graphs presented in Chapter 4 are not

readable. Word “where” on page 2 should not be an upper index. I miss a list of used or selected symbols at the beginning of this thesis.

Student’s personal approach: Author was able to work independently with a small help of a supervisor.

3. Questions about diploma thesis:

Explain the differences of the pressure evaluation in SW DaVis.


4. Supervisor’s statement on results of the inspection carried out by the anti-plagiarism program in the STAG system:

The system STAG at TUL evaluated the match of 0%.

5. Supervisor’s grading of the diploma thesis:

I recommend this work for the defense and grade it as **very good**.

Date: 24.5.2019, in Liberec



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Supervisor’s signature