BACHELOR THESIS EVALUATION
SUPERVISOR EVALUATION

Author name: **Ondřej Havelka**
Supervisor: **MSc. Rafael Omar Torres Mendieta, PhD.**
Thesis title: **Generování Fe nanoklastrů pomocí laserové syntézy**

A. Abstract quality, keywords matching . . . . Excellent (1)

B. Research scope and processing . . . . Excellent (1)

C. Level of theoretical part . . . . Excellent (1)

D. Appropriateness of the methods . . . . Excellent (1)

E. Results elaboration and discussion . . . . Excellent (1)

F. Students own contribution . . . . Excellent (1)

G. The conclusion statement . . . . Excellent (1)

H. Fulfillment of Thesis tasks (goals) . . . . Fulfiled

I. Structure, correctness and fulness of references . . . . Excellent (1)

J. Typographical and language level . . . . Excellent (1)

K. Formal quality . . . . Excellent (1)
(text structure, chapters order, clarity of illustrations)

L. Student access (independence, activity etc.) . . . . Excellent (1)

Comments, remarks

The results of the current barchelor's thesis have served as seminal study for publishing a scientific paper about the laser-mediated synthesis of Fe-based nanocrystals
(Available from: https://www.sciencedirect.com/science/article/pii/S0169433218331210).

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Overall assessment:

In the current thesis, Ondřej worked on the laser-mediated synthesis of Fe nanoclusters. For this, he have used the technique known as "Laser Fragmentation in Liquids", which is based on the evaporation of micrometric Fe particles by means of pulsed laser irradiation. During the working process, Ondřej showed genuine interest and passion for the development and design of the experiments.

The difficulty of the topic was elevated for a bachelor's student, but Ondřej successfully completed all the tasks related to the work in an outstanding way.

The work performed herein is brand-new and may represent a cornerstone in the understanding of the precise control over ultra-small sized nanomaterials. As mentioned above, Ondřej has a great interest in this research field and for his master studies, he intends to continue exploring the way to optimize the Fe nanoclusters synthesis and use the produced material in real applications.

Questions for the defense:

Plagiarism checking:

Similarity by STAG: 0 %   Comment if similarity is above 5 %:

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Add your explanation if the Similarity is HIGHER than 5 % and you are convinced that there is no plagiarism problem.

Overall classification:

Work meets the Bachelor degree requirements and therefore I recommend it for defense

I suggest to classify this work by grade   Excellent (1)

In   Liberec, Czech Republic.

date   09/05/2019

By signing I certify that I am not in any personal relationship with the author of the thesis

. . . .

Supervisor signature