

PUBLIC LECTURE EVALUATION

Masaryk University

Faculty	Faculty of Science
Procedure field	Physics of Plasma
Applicant	doc. Mgr. Tomáš Hoder, Ph.D.
Lecture date	23.1. 2025
Lecture topic	Barrier Discharge: Theory and Experiment
Persons present (number)	2 onsite + 3 online
Designated evaluators (board members)	prof. Mgr. Petr Vašina, Ph.D. (Faculty of Science MU) prof. RNDr. Mirko Černák, CSc. (Faculty of Science MU) prof. Dr. Achim von Keudell (Faculty of Physics and Astronomy, Ruhr University Bochum, Germany) prof. Jan Benedikt, Ph.D. (Christian-Albrechts-Universität zu Kiel Mathematisch-Naturwissenschaftliche Fakultät) prof. Françoise Massines (CNRS, PROMES, University Perpignan, France)

Tomáš Hoder gave his lecture entitled "Barrier Discharge: Theory and Experiment" on 23.1. at 1 p.m. in the F1 Faculty of Science MUNI lecture room. The entire committee participated in the lecture, 2 members onsite, 3 members online. 35 guests participated, too. The commission rated the lecture as very high quality, Tomáš Hoder presented the basic mechanisms and physics of barrier discharge as it developed over time, he started with the first experiments and studies from the first half of the 20th century and then discussed scientific progress and achievements of the last 20 years in a very high-quality way and illustrated his contributions to the current state of knowledge. The lecture was targeted at an advanced audience but very comprehensible, full of references to the work performed by Tomas Hoder and other groups worldwide. The lecture was followed by a discussion, where Tomáš Hoder answered all questions of the committee, and of the attending guests.

Conclusion

The lecture delivered by Tomáš Hoder, entitled "Barrier Discharge: Theory and Experiment" and delivered as part of the professor appointment procedure, **demonstrated** very good scholarly qualifications and pedagogical capabilities expected of applicants participating in a professor appointment procedure in the field of Physics of Plasma.

The lecture took place in a hybrid form at 13:00, 23.1.2025. The above-mentioned members of the board attended the lecture and provided its evaluation. All designated evaluators are familiar with the text of the evaluation and agree with it.

Date: 23.1. 2025

prof. Mgr. Petr Vašina, Ph.D.

prof. RNDr. Mirko Černák, CS