

PUBLIC LECTURE EVALUATION

Masaryk University

Faculty	Faculty of Science
Procedure field	Plasma physics
Applicant	Mgr. Jan Čech, Ph.D.
Lecture date	6 November 2025
Lecture topic	CaviPlasma - diagnostics and applications of novel plasma
Persons present (number)	45 on-site + 8 remote
Designated evaluators (board members)	prof. Mgr. Vít Kudrle, Ph.D. (on-site) doc. Mgr. Dušan Kováčík, Ph.D. (on-site) prof. RNDr. Vladimír Aubrecht, CSc. (online) doc. Ing. Pavel Baroch, Ph.D. (online) prof. Jan Benedikt, Ph.D. (online)

Public lecture by Dr. J. Čech has clearly shown that he is well-versed in the field of plasma - water interaction and that he is able to convey his knowledge to audience with diverse levels of acquaintanceship. He presented both the broad foundations of the field as well as his own latest research and development. Scientific results were discussed and favourably compared to those of other research groups. Moreover, Dr. J. Čech presented actual applications of the developed technology made in collaboration with industrial partners.

The lecture was timely, explanatory and generally well executed, clearly showing the abilities of Dr. J. Čech as a teacher. There were even demonstration experiments, which is rather unusual for habilitation lecture. At the time of the lecture, one review of habilitation thesis was already available, and Dr. J. Čech used this opportunity to answer all questions from the review. There were also several questions from the audience, which were answered promptly and in great detail.

Conclusion

The lecture delivered by **Mgr. Jan Čech, Ph.D.**, entitled "CaviPlasma - diagnostics and applications of novel plasma" and delivered as part of the habilitation procedure,

demonstrated sufficient scholarly qualifications and pedagogical capabilities expected of applicants participating in a habilitation in the field of Plasma physics.

The lecture took place in a hybrid form at 11:00, 6 November 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: 10 November 2025

Vít Kudrle

Dušan Kováčik

Vladimír Aubrecht

Pavel Baroch

Jan Benedikt