

BACHELOR'S
THESIS DESCRIPTION

Academic year: 2021/2022

Department:	Department of Physical Electronics
Student:	Bc. Roman Solař
Programme:	Physics
Field of Study:	Physics

In compliance with the Study and Examination Regulations of Masaryk University, the Department Head of *ústavu* at the Faculty of Science, MU is assigning you a Bachelor's thesis with the title:

Title of the thesis/dissertation:	Stochastický přístup k řešení plazmové kinetiky.
Title of the thesis in English:	Stochastic approach to plasma kinetics.
Thesis language:	English

Final Description:

Stochastic approach to plasma kinetics is an alternative approach to solve plasma chemical kinetic equations that allows to study nonequilibrium kinetics via Monte Carlo approach. The goal of this work will be to create a code that will allow to use stochastic approach to study various plasma chemical systems. Results are to be compared with solutions of classical plasma chemical kinetic equations using systems of ordinary differential equations.

Thesis supervisor:	Mgr. Zdeněk Bonaventura, Ph.D.
Thesis assignment date:	2021/01/30
In Brno, date:	2022/01/04

The description was approved through IS MU.

Bc. Roman Solař, 2021/02/01

Mgr. Zdeněk Bonaventura, Ph.D., 2021/02/02

RNDr. Luboš Poláček, 2021/02/04