

UNIVERZITA KARLOVA
Faculty of Mathematics and Physics

Katedra aplikované matematiky

Academic year: 2018/2019

ASSIGNMENT OF BACHELOR'S THESIS

Name and surname: **Nathan Chappell**

Study programme: **Computer Science**

Study discipline: **General Computer Science**

the Dean of the faculty has assigned to you this bachelor's thesis in compliance with the law no. 111/1998 Coll.:

Thesis topic: **Minkowski-Weyl teorém**

Thesis topic in English: **Minkowski-Weyl Theorem**

Guidelines for thesis preparation:

The aim of the thesis is to understand the Minkowski-Weyl theorem for polyhedra. This will be achieved by constructing a complete proof of the theorem and implementing an algorithm that uses the proof to convert a system of linear inequalities into a finite set of vertices and extreme rays of the polyhedron.

Bibliography:

Guenter Ziegler: Lectures on polytopes

Supervisor of bachelor's thesis: **doc. Tiwary Hans Raj, M.Sc., Ph.D.**

Opponents:

Consultants:

Date of assignment of bachelor's thesis: 17.4.2019

Bachelor's thesis submission deadline: according to the academic calendar for the respective academic year

V2 Kypel
Head of Department

i. J. F. Chudov
Dean

Prague, on 14.5.2019