

Rheinische Friedrich-Wilhelms-Universität Bonn

Mathematisch-Naturwissenschaftliche Fakultät

CERTIFICATE

Maria Tsedrik

born on February 29th, 1996 in Kaliningrad (Russia)

has successfully passed the examinations for the degree
Master of Science in Astrophysics

on December 14th, 2020

with the overall grade **very good (1.1)**

Academic Records:

Module	CP	Grade
Advanced Laboratory Course	7	good (1.7)
- physics601: Advanced Laboratory Course summer semester 2019	ECTS: 7	Grade: 1.7
Theoretical Astrophysics	7	good (2.3)
- astro608: Theoretical Astrophysics winter semester 2018/2019	ECTS: 7	Grade: 2.3
Compulsory Astrophysics I	12	very good (1.1)
- astro811: Stars and Stellar Evolution winter semester 2018/2019	ECTS: 6	Grade: 1.3
- astro812: Cosmology winter semester 2018/2019	ECTS: 6	Grade: 1.0
Compulsory Astrophysics II	12	very good (1.3)
- astro821: Astrophysics of Galaxies summer semester 2019	ECTS: 6	Grade: 1.7
- astro822: Physics of the Interstellar Medium summer semester 2019	ECTS: 6	Grade: 1.0

Elective Advanced Lectures		18 very good (1.1)
- physics755: Quantum Field Theory summer semester 2020	ECTS: 7 Grade: 1.0	
- astro841: Radio Astronomy: Tools, Applications, Impacts winter semester 2018/2019	ECTS: 6 Grade: 1.0	
- astro845: Observational Cosmology summer semester 2019	ECTS: 4 Grade: 2.0	
- astro8503: Radio- and X-Ray Observations of Dark Matter and Dark Energy winter semester 2018/2019	ECTS: 4 Grade: 1.0	
- astro852: Gravitational Lensing summer semester 2019	ECTS: 4 Grade: 1.0	
Seminar		4 very good (1.0)
- Seminar on Astrophysics summer semester 2019	ECTS: 4 Grade: 1.0	
Scientific Exploration of the Master Thesis Topic		15 very good (1.0)
- Scientific Exploration summer semester 2020	ECTS: 15 Grade: 1.0	
Methods and Project Planning		15 very good (1.0)
- Methods and Project Planning summer semester 2020	ECTS: 15 Grade: 1.0	
Master Thesis		30 very good (1.0)
- Master Thesis winter semester 2020/2021	ECTS: 30 Grade: 1.0	
Additional Voluntary Courses		0
- Seminar: Women in the History of Philosophy winter semester 2020/2021	ECTS: 2 Grade: 1.7	
equivalent accepted from degree programme Philosophy, Universität Bonn		

Subject of the Master Thesis: "Large Scale Structure in Modified Gravity and Kinetic Field Theory"

Bonn, July 2nd, 2021

Head of the Examination Board
in Physics and Astronomy

signed

Prof. Dr. Hartmut Schmieden

Notes:

ECTS: work load of module according to the European Credit Transfer and Accumulation System
CP (Credit Points according to the examination regulations): weight of the module in the overall grade

This English translation of the German original document is certified to be complete and correct.

Bonn, July 2nd, 2021



Hartmut Schmieden
Prof. Dr. Hartmut Schmieden