

Ms. **Maria Tsedrik**

born on February 29, 1996
in Kaliningrad

has passed the **Bachelor Examination**

in accordance with the
provisions of the syllabus for **Physics**


and has obtained the overall mark **very good (1,5)**

Bachelor Thesis		Credits	Mark
Topic of Bachelor Thesis	Cosmic Ray Anisotropies and Interstellar Turbulence	12	very good (1,0)
	Presentation of Bachelor Thesis	3	good (1,7)
Examiner	Mertsch		

The degree programme has been completed within the regular period of study.

Aachen, September 07, 2018

Chair of the
Examination Board


Univ.-Prof. Dr. rer. nat. Achim Stahl



Maria Tsedrik born on February 29, 1996 in Kaliningrad
has achieved the following individual results:

	Credits	Mark
Experimental Physics	38	very good (1,5)
Experimental Physics I (Mechanics and Relativity)	7	good (1,7)
Experimental Physics II (Heat and Electromagnetism)	7	good (2,3)
Experimental Physics III (Optics and Quantum Physics)	7	very good (1,3)
Experimental Physics IV (Atoms, Molecules, Nuclei)	7	very good (1,0)
Experimental Physics Va (Solid State Physics)	5	good (1,7)
Experimental Physics Vb (Particle Physics and Astrophysics)	5	very good (1,3)
Theoretical Physics	37	good (2,0)
Introduction to Theoretical Physics	7	very good (1,3)
Theoretical Physics I (Classical Mechanics)	5	sufficient (4,0)
Theoretical Physics II (Electrodynamics)	7	good (2,0)
Theoretical Physics III (Quantum Mechanics)	9	passed
<i>The degree programme has been completed within the regular period of study. Upon request, the grade for this module can be excluded from the overall grade calculation. The module is graded with satisfactory (2,7).</i>		
Theoretical Physics IV (Statistical Physics)	9	good (1,7)
Mathematics	31	good (2,3)
Higher Mathematics I	8	good (2,3)
Higher Mathematics II	8	satisfactory (2,7)
Higher Mathematics III	8	good (2,0)
Higher Mathematics IV	7	passed
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Practical Courses	27	good (2,0)
Data Processing	6	satisfactory (3,3)
Beginners Laboratory I	6	passed
<i>The degree programme has been completed within the regular period of study. Upon request, the grade for this module can be excluded from the overall grade calculation. The module is graded with satisfactory (2,7).</i>		
Beginners Laboratory II	6	very good (1,3)
Advanced Laboratory	9	good (1,7)
Subsidiary Subject	10	good (1,6)
Subsidiary Subject Computer Science	10	good (1,6)

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has achieved the following individual results:

	Credits	Mark
Interconnections	18	good (2,1)
Interconnections in Experimental Physics	5	very good (1,3)
Interconnections in Theoretical Physics	8	good (2,3)
Scientific Discussion in Experimental Physics	5	satisfactory (2,7)
Specialization Subject	4	passed
Relativistic Quantum Theory	4	passed
The following additional examinations were provided during this degree programme:		
English for Physicists	6	very good (1,3)
Theory of Special Relativity	6	passed

This final academic transcript has also been issued in a German version.
A credit point represents an estimated workload of approximately 30 hours.