

## Primary and Secondary AoS General Theory of Relativity / Quantum Field Theory (GR/QFT)

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	hpw	CP	SS17	WS17/18	SS18	WS18/19	SS19	WS19/20
<b>Core Courses</b>								
Relativity and Cosmology I	4+2	9		x		x		
Relativity and Cosmology II	4+2	9			x		x	
Quantum field theory I	4+2	9	x		x		x	
Quantum field theory II	4+2	9		x		x		x
<b>Specialized courses</b>								
<b>Quantum Aspects of Gravity:</b> Quantum Gravity, The Early Universe, Quantum Field Theory in Curved Spacetime, Foundations of Quantum Theory, Quantum Black Holes	2	3	x		x		x	
<b>Particle- and Astrophysics:</b> Advanced Astrophysics, Theoretical Particle Physics, Theoretical Astroparticle Physics, Superstring Theory, Supersymmetry, Advanced Theoretical Particle Physics	3+1	6	x	x	x	x	x	x
<b>Mathematics:</b> Topology <sup>2</sup> , Differential Geometry <sup>2</sup> , Theory of Groups <sup>2</sup> , Functional Analysis <sup>2</sup> , Complex Geometry <sup>2</sup> , Geometry and Analysis on Supermanifolds and Lie Supergroups	2	3	x	x	x	x	x	x
<b>Seminars</b>								
Advanced Seminar on Relativity and Cosmology	2	3		x		x		(x)
Advanced Seminar on Quantum Field Theory	2	3	x		x		(x)	

x confirmed

(x) planned

2: lecture course of doubled load: hpw: 4+2, CP: 6

GR/QFT as Primary: one core course, Adv. Seminar; 2 nd core course or specialized courses.

as Secondary: at least one core course; at least one specialized course.