

Fall Semester MA1/MA3 - Physics Master

Credits	Astrophysics and Particle Physics	Plasma physics, fusion and fission	Physics of Biological and Complex Systems	Condensed Matter Physics	Quantum Science and Technology
6 ECTS	Machine learning for physicists - 467	Machine learning for physicists - 467	Machine learning for physicists - 467	Attosecond radiation sources - 761	Machine learning for physicists - 467
	Quantum field theory I - 431	Plasma I - 423		Machine learning for physicists - 467	Quantum computing - 541
	Quantum physics III - 425			Quantum physics III - 425	QED & Quantum Optics - 453
	Relativity and cosmology I - 427			Solid state physics III - 419	Solid state physics III - 419
4 ECTS	Astrophysics II - 472	Computer simulation I - 403	Computer simulation I - 403	Computer simulation I - 403	Computer simulation I - 403
	Astrophysics III - 465	Neutron scattering - 640	Intro. to biomedical imaging - 438	Frontiers in nanosciences - 407	Frontiers in nanosciences - 407
	Computer simulation I - 403	Nuclear fusion & plasma phys. - 445	Modeling of experiments - 442	Interacting quantum matter - 502	Interacting quantum matter - 502
	Intro. to particle accelerators - 448	Radiation biology - 450	MRI Practicals - 473	Modeling of experiments - 442	Math. of quantum phys. - 469
	Modeling of experiments - 442	Radiation detection - 452	Radiation biology - 450	MRI Practicals - 473	Modeling of experiments - 442
	Particle detection - 440	Particle detection - 440	Stat. phys. biomacromolecules - 441	Neutron scattering - 640	Quantum information theory - 550
	Particle physics I - 415		Stat. phys. of computation - 512	Physics of materials - 307	Quantum transport - 462
8 ECTS			Stat. phys. phase transitions - 475	Semiconductor physics - 433	Semiconductor physics - 433
	Modern appro. quant. gravity - 504				
	Quantum field theory III - 503				
3 ECTS	The standard model - 505				
			Fundament. of crystallography - 477	Fundament. of crystallography - 477	
Color code : Option SPH Advanced courses					