

# Master Mathematical Physics

Module Registration (TOOL):

1 October 2024 - 12:00 (noon)

End: 7 October 2024 - 17:00

Module De-Registration (AlmaWeb):

11 January 2025 in AlmaWeb

## Compulsory Modules

Mathematische Physik 1 und Mathematische Physik 2 Mathematical Physics 1 and Mathematical Physics 2							(12-PHY-MPMP1) (12-PHY-MPMP2)
MV	Prof. Ph.D. D. Gajic		Mon	11:15-12:45	L	ITP, Brüderstr. 16	R 114
	Prof. Ph.D. D. Gajic		Tue	11:15-12:45	L	ITP, Brüderstr. 16	R 114
	Dr. M. Wirth		Thu	09:15-10:45	L	SG, Universitätsstr. 1	SG 3-13
	Dr. M. Wirth		Fri	09:15-10:45	L	HSG, Universitätsstr. 3	HS 19
	Q. Rutgers		Tue	15:15-16:45	Ex	ITP, Brüderstr. 16	R 114
	Q. Rutgers		Thu	11:15-12:45	Ex	ITP, Brüderstr. 16	R 114

## Research Practice

Forschungspraktikum Research Practice				(12-PHY-MPFS)
Prof. Dr. R. Verch / Prof. Dr. M. Schwarz	by arrangement		S	

## Advanced Seminar

Neuere Entwicklungen in der Geometrie New Developments in Geometry				(10-MAT-MPHSG)
Prof. Dr. H.-B. Rademacher		Mon	15:15-16:45	S Paulinum, P-701
Specialized Topics of Theoretical and Mathematical Physics				(12-PHY-MWPSPM)
Prof. Dr. R. Verch	by arrangement		S	ITP, Brüderstr. 16
Specialized Topics of Theoretical Physics				(12-PHY-MWPSTP)
Prof. Ph. D. I. A. N. Sodemann Villadiego	by arrangement		S	ITP, Brüderstr. 16

## Compulsory Elective Modules - Physics

General Relativity							(12-PHY-MWPQFG1)
Dr. M. Casals		Mon	13:15-14:45	L	ITP, Brüderstr. 16	R 114	
Dr. M. Casals		Tue	17:15-18:45	L	ITP, Brüderstr. 16	R 114	
N.N.		Fri	13:15-14:45	E	ITP, Brüderstr. 16	R 114	
Cosmology							(12-PHY-MWPQFG2)
Prof. Dr. R. Verch		Wed	11:15-12:45	L	ITP, Brüderstr. 16	R 114	
Prof. Dr. R. Verch		Thu	13:15-14:45	L	ITP, Brüderstr. 16	R 114	
P. Dorau		Thu	17:15-18:45	E	ITP, Brüderstr. 16	R 114	
Advanced Quantum Mechanics							(12-PHY-MWPT1)
MV	Prof. Ph. D. I. A. N. Sodemann Villadiego	by arrangement	Thu	15:15-16:45	L	ITP, Brüderstr. 16	R 210
	Prof. Ph. D. I. A. N. Sodemann Villadiego	by arrangement	Fri	11:15-12:45	L	ITP, Brüderstr. 16	R 210
Gr. 1	Dr. L. Shi	by arrangement	Mon	15:15-16:45	E	ITP, Brüderstr. 16	R 114
Gr. 2	Dr. L. Shi	by arrangement	Wed	9:15-10:45	E	ITP, Brüderstr. 16	R 114

(as at: 27 September 2024, subject to change)

### Abbreviations

tba= to be announced    E= Exercise    L= Lecture    Lab= Laboratory Course    S= Seminar

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## Elective Modules: Mathematics

Fortgeschrittene Differentialgeometrie II Advanced Differential Geometry II					(10-MAT-MPDG2)
MV	Prof. Dr. H.-B. Rademacher	Mon	11:15-12:45	L	SG 3-12
	Prof. Dr. H.-B. Rademacher	Mon	15:15-16:45	L	Paulinum, P-701
	N.N.			S	
Fortgeschrittene Theorie Dynamischer Systeme Advanced Theory of Dynamical Systems					(10-MAT-MPDS2)
	Prof. Dr. M. Schwarz	Tue	13:15-14:45	L	Augusteum, A-314
	Prof. Dr. M. Schwarz	Fri	13:15-14:45	L	Augusteum, A-314
Stochastische Prozesse I Stochastic Processes I					(10-MAT-MPSP1)
MV	Prof. Dr. A. Bufetov	Mon	11:15-12:45	L	Paulinum, P-701
	Prof. Dr. A. Bufetov	Mon	17:15-18:45	L	Augusteum, A-314
	Prof. Dr. A. Bufetov	Tue	11:15-12:45	S	Augusteum, A-314

## Elective Modules: Physics

Practical Course: Quantum Field Theory and Gravity					(12-PHY-MWPQFG6)
	Dr. D. Cadamuro	by arrangement		Lab	ITP, Brüderstr. 16
Statistical Mechanics of Deep Learning					(12-PHY-MWPSTP2)
	Prof. Dr. B. Rosenow	by arrangement		L	ITP, Brüderstr. 16
	Prof. Dr. B. Rosenow	by arrangement		L	ITP, Brüderstr. 16
	M. Kühn	by arrangement		E	ITP, Brüderstr. 16
Practical Course: Condensed Matter Theory					(12-PHY-MWPTKM4)
	Prof. Dr. K.-D. Kroy	by arrangement		Lab	ITP, Brüderstr. 16
Practical Course: Quantum Statistical Physics					(12-PHY-MWPTKM5)
	Prof. Dr. B. Rosenow	by arrangement		Lab	ITP, Brüderstr. 16

## Elective Module: Computer Science

Künstliche Neuronale Netze, Deep Learning, Maschinelles Lernen und Signalverarbeitung (Sprache: Deutsch)					(10-202-2133)
	Prof. Dr. M. Bogdan	Wed	11:15-12:45	L	Felix-Klein-Hörsaal
	Prof. Dr. M. Bogdan / V. S. Adama	Wed	13:15-14:45	L	HS 19
	V. S. Adama	Wed	17:15-18:45	Lab	Vorraum FKH

## Elective Module: Meteorology

A3 - Numerical Weather Prediction and Climate Modelling					(12-111-1026)
	Dr. M. Salzmann	Start: 17.10.2024	Thu	9:00-10:30	L Talstr. 35 HS 2 / CIP-Pool
	Dr. M. Salzmann	Start: 17.10.2024	Thu	10:30-12:00	Lab Talstr. 35 HS 2 / CIP-Pool

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