

# Master Physik & IPSP

Module Registration (AlmaWeb): 31 March 2021 12.00 (noon) - 7 April 2021 17.00

Withdrawal from a module and the associated withdrawal from the module examination (AlmaWeb): 26 June 2021

## WPB 1: „Experimental Physics“

### Fortgeschrittene Festkörperphysik Advanced Solid State Physics

(12-PHY-MWPE1)

Prof. Dr. P. Esquinazi / Prof. Dr. J. Haase	Start: 12.4.2021	Mo	11:15-12:45	V/L	DS
Prof. Dr. P. Esquinazi / Prof. Dr. J. Haase	Start: 15.4.2021	Do/Th	11:15-12:45	V/L	DS
Dr. R. Reznicek	Start: 16.4.2021	Fr	9:15-10:45	Ü/E	DS
tba				PR/Lab	

## WPB 2: „Theoretical Physics“

### Fortgeschrittene Statistische Physik Advanced Statistical Physics

(12-PHY-MWPT2)

Prof. Dr. K. Kroy	Start: 15.4.2021	Do/Th	15:15-16:45	V/L	DS
Prof. Dr. K. Kroy	Start: 16.4.2021	Fr	11:15-12:45	V/L	DS
Gr. 1 Dr. L. Dadhichi	Start: 16.4.2021	Fr	13:15-14:45	Ü/E	DS
Gr. 2 M. Sc. R. Wiese	Start: 16.4.2021	Fr	13:15-14:45	Ü/E	DS

Link: <https://moodle2.uni-leipzig.de/enrol/index.php?id=31643>

## WPB 3: „Hauptseminare / Advanced Seminars“

### Moderne Entwicklungen in der Festkörperphysik Modern Developments in Solid State Physics

(12-PHY-MWPHS1)

Prof. Dr. S. G. Mayr	n.V. / by agreement	Mo	9:15-10:45	S	
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### Biological Physics

(12-PHY-MWPHS3)

Prof. Dr. C. Mierke	Start: 15.4.2021	Do/Th	11:00-12:30	S	
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### Quantenfeldtheorie Quantum Field Theory

(12-PHY-MWPHS5)

Prof. Ph.D. Hollands / Dr. Cadamuro / Dr. Zahn	Start: 13.4.2021	Di/Tu	9:15-10:45	S	
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Link: <https://moodle2.uni-leipzig.de/enrol/index.php?id=32295>

### Theorie kondensierter Materie Condensed Matter Theory

(12-PHY-MWPHS7)

Prof. Dr. K. Kroy / Prof. Dr. J. Vollmer	Start: 14.4.2021	Mi/We	16:15-17:45	S	DS
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Link: <https://moodle2.uni-leipzig.de/enrol/index.php?id=31698>

### Computerorientierte Quantenfeldtheorie Computer-oriented Quantum Field Theory

(12-PHY-MWPHS8)

Prof. Dr. W. Janke	nach Vereinbarung / by agreement			S	
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Link: <https://moodle2.uni-leipzig.de/course/view.php?id=32498>

### Quantenstatistische Physik Quantum Statistical Physics

(12-PHY-MWPHS9)

Prof. Dr. B. Rosenow	nach Vereinbarung / by agreement			S	
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### Molekulare Nanotechnologie Molecular Nanotechnology

(12-PHY-MWPHS10)

Prof. Dr. R. Seidel / Dr. D. Smith	Start: 13.4.2021	Di/Tu	13:30-15:00	S	DS
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Link: <https://moodle2.uni-leipzig.de/enrol/index.php?id=32739>

(as at: April 2021, 16th subject to change !)

#### Abbreviations

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## WPB 4: „Physikalischer Wahlbereich“ / „Physics Electives“

<b>Theoretikum Computational Physics</b>						<b>(12-PHY-MWPCQT3)</b>
Prof. Dr. W. Janke	nach Vereinbarung / by agreement			PR/Lab	P	
Link:	<a href="https://moodle2.uni-leipzig.de/course/view.php?id=32502">https://moodle2.uni-leipzig.de/course/view.php?id=32502</a>					
<b>Physik nanoporöser Materialien Physics of Nanoporous Materials</b>						<b>(12-PHY-MWPGFP)</b>
Prof. Dr. R. Valiullin	nach Vereinbarung / by agreement			V/L		
H. Enniful	nach Vereinbarung / by agreement			PR/Lab	P	
<b>Halbleiterphysik II, Physik und Technologie von Halbleiter-Bauelementen Semiconductor Physics II</b>						<b>(12-PHY-MWPHLP3)</b>
Prof. Dr. M. Grundmann	Start: 12.4.2021	Mo	13:15-14:45	V/L	DS	
Prof. Dr. M. Grundmann	Start: 15.4.2021	Do	13:15-14:45	V/L	DS	
<b>Praktikum Halbleiterphysik II Laboratory Work in Semiconductor Devices II</b>						<b>(12-PHY-MWPHLP5)</b>
Prof. Dr. M. Grundmann / Prof. Dr. M. Lorenz	nach Vereinbarung / by agreement			PR/Lab	P	
<b>Halbleiterphysik III, Aktuelle Kapitel der Halbleiteroptik Semiconductor Physics III: Current Issues in Semiconductor Optics</b>						<b>(12-PHY-MWPHLP6)</b>
Dr. C. Sturm	nach Vereinbarung / by agreement			V/L		
<b>Methoden der Biophysik Experimental Methods in Biophysics</b>						<b>(12-PHY-MWPM3)</b>
Prof. Dr. C. Mierke	Start: 15.4.2021	Do/Th	13:30-15:00	V/L		
Prof. Dr. C. Mierke	Start: 15.4.2021	Do/Th	15:15-16:45	Ü/E		
<b>Computersimulation II Computer Simulations II</b>						<b>(12-PHY-MWPMDC2)</b>
Prof. Dr. W. Janke	nach Vereinbarung / by agreement			V/L		
Prof. Dr. W. Janke	nach Vereinbarung / by agreement			Ü/E		
Link:	<a href="https://moodle2.uni-leipzig.de/course/view.php?id=32486">https://moodle2.uni-leipzig.de/course/view.php?id=32486</a>					
<b>Photonik II - Organophotonische Biophysik Photonics II - Organophotonic Biophysics</b>						<b>(12-PHY-MWPMON2)</b>
Dr. C. Murawski	nach Vereinbarung / by agreement			V/L	DS	
Dr. C. Murawski	nach Vereinbarung / by agreement			S	DS	
<b>Active Matter Physics</b>						<b>(12-PHY-MWPMON3)</b>
Prof. Dr. F. Cichos	Start: 14.4.2021	Mi/We	15:15-16:45	V/L	DS	
Dr. T. Thalheim	Start: 20.4.2021	Di/Tu	15:15-16:45	S	DS	
Link:	<a href="https://home.uni-leipzig.de/~physik/sites/mona/teaching/periodic-lectures/active-matter-physics-ss-2021/">https://home.uni-leipzig.de/~physik/sites/mona/teaching/periodic-lectures/active-matter-physics-ss-2021/</a>					
<b>Spinresonanz II Spin Resonance II</b>						<b>(12-PHY-MWPMQ2)</b>
Prof. Dr. J. Haase	nach Vereinbarung / by agreement			V/L		
Prof. Dr. R. Valiullin	nach Vereinbarung / by agreement			S		

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## WPB 4: „Physikalischer Wahlbereich“ / „Physics Electives“

<b>Praktikum Elektronen Paramagnetische Resonanz</b>							<b>(12-PHY-MWPMQ4)</b>
<b>Electronic Spin Resonance Laboratory</b>							
	Prof. Dr. A. Pöppl	n.V. / by agreement	Mi/We	13:00-16:30	PR/Lab	P	Linnéstr. 5 Zi. 111
Info:	begrenzt auf 3 Plätze						
 <b>Kosmologie</b>							<b>(12-PHY-MWPQFG2)</b>
<b>Cosmology</b>							
	Prof. Dr. R. Verch	Start: 12.4.2021	Mo	17:15-18:45	V/L	DS	
	Prof. Dr. R. Verch	Start: 16.4.2021	Fr	15:15-16:45	V/L	DS	
	N. N. / tba	nach Vereinbarung / by agreement				S	
Link:	<a href="https://www.physik.uni-leipzig.de/~verch/Cosmo-21.html">https://www.physik.uni-leipzig.de/~verch/Cosmo-21.html</a>						
 <b>Quantenfeldtheorie in gekrümmter Raumzeit</b>							<b>(12-PHY-MWPQFG3)</b>
<b>Quantum Field Theory on Curved Space Times</b>							
	Dr. J. Zahn	Start: 12.4.2021	Mo	9:15-10:45	V/L	DS	
	Dr. J. Zahn	Start: 15.4.2021	Do/Th	9:15-10:45	V/L	DS	
	Dr. J. Zahn	Start: 16.4.2021	Fr	9:15-10:45	S	DS	
Link:	<a href="https://moodle2.uni-leipzig.de/enrol/index.php?id=31544">https://moodle2.uni-leipzig.de/enrol/index.php?id=31544</a>						
 <b>Theoretikum "Quantenfeldtheorie und Gravitation"</b>							<b>(12-PHY-MWPQFG6)</b>
<b>Theoretikum "Quantum Field Theory and Gravity"</b>							
	Prof. Dr. R. Verch	nach Vereinbarung / by agreement			PR/Lab		
 <b>Quantentechnologie 2</b>							<b>(12-PHY-MWPQT2)</b>
<b>Quantum Technology 2</b>							
	Dr. S. Pezzagna	nach Vereinbarung / by agreement			V/L		
	Dr. S. Diziain	nach Vereinbarung / by agreement			S		
Link:	<a href="https://moodle2.uni-leipzig.de/enrol/index.php?id=32897">https://moodle2.uni-leipzig.de/enrol/index.php?id=32897</a>						
 <b>Relativistische Quantenfeldtheorie</b>							<b>(12-PHY-MWPTE4)</b>
<b>Relativistic Quantum Field Theory</b>							
	Prof. Ph. D. S. Hollands	Start: 13.4.2021	Di/Tu	15:15-16:45	V/L	DS	
	Prof. Ph. D. S. Hollands	Start: 15.4.2021	Do/Th	13:15-14:45	V/L	DS	
	V. Toomani	nach Vereinbarung / by agreement				S	
 <b>Nichtlineare Dynamik und Strukturbildung</b>							<b>(12-PHY-MWPTKM2)</b>
<b>Non-linear Dynamics and Pattern Formation</b>							
	Prof. Dr. J. Vollmer	nach Vereinbarung / by agreement			V/L		
	Prof. Dr. J. Vollmer	nach Vereinbarung / by agreement			V/L		
	N.N. / tba	nach Vereinbarung / by agreement				S	
 <b>Theoretikum "Theorie kondensierter Materie"</b>							<b>(12-PHY-MWPTKM4)</b>
<b>Theoretikum "Condensed Matter Theory"</b>							
	Prof. Dr. K.-D. Kroy / Prof. Dr. J. Vollmer	nach Vereinbarung / by agreement			PR/Lab		
 <b>Theoretikum "Quantenstatistische Physik"</b>							<b>(12-PHY-MWPTKM5)</b>
<b>Theoretikum "Quantumstatistical Physics"</b>							
	Prof. Dr. B. Rosenow	nach Vereinbarung / by agreement			PR/Lab		
 <b>Physik der weichen Materie und biologische Physik</b>							<b>(12-PHY-MWPWMB1)</b>
<b>Advanced Soft Matter and Biological Physics</b>							
	Dr. J. Schnauß	Start: 13.4.2021	Di/Tu	11:00-12:45	V/L	DS	
	Dr. J. Schnauß	Start: 14.4.2021	Mi/We	9:15-10:45	S	DS	
Link:	<a href="https://moodle2.uni-leipzig.de/course/view.php?id=31321">https://moodle2.uni-leipzig.de/course/view.php?id=31321</a>						

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### Teilchenphysik Particle Physics

(12-PHY-MWPXT2)

Dr. D. Spemann V/L DA

Dr. D. Spemann Start: 13.4.2021 Di/Tu 9:15-10:45 S DS

Link: <https://moodle2.uni-leipzig.de/enrol/index.php?id=32495>

### Statistische Mechanik des Deep Learning Statistical Mechanics of Deep Learning

(NEW)

Prof. Dr. B. Rosenow Start: 15.4.2021 Do/Th 15:15-16:45 L DS

Prof. Dr. B. Rosenow Start: 16.4.2021 Fr 11:15-12:45 L DS

M. Sc. A. Afanah (German Tutorial) Start: 22.4.2021 Do/Th 9:15-10:45 E DS

M. Sc. A. Afanah (English Tutorial) Start: 23.4.2021 Fr 13:30-15:00 E DS

Info For module registration send an e-mail (only Univ.-E-Mail !) with the necessary information (name, matriculation no.) to <einschreibung-physgeo[AT]uni-leipzig.de>

Link: [https://home.uni-leipzig.de/stp/Statistical\\_Deep\\_SS21.html](https://home.uni-leipzig.de/stp/Statistical_Deep_SS21.html)

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