Georg-August-Universität Göttingen		3 C	
Module M.Mat.4715: Special course in mat physics	2 WLH		
Learning outcome, core skills: Learning outcome:		Workload: Attendance time:	
In the modules of the cycle "Mathematical methods of different mathematical methods and techniques that p are introduced to current research questions and enal contributions to research, e. g. within the scope of a N	physics" students get to know lay a role in modern physics. They oled to carry out independent laster's thesis.	28 h Self-study time: 62 h	
The topics of the cycle can be divided into four blocks of different blocks, that topically supplement each othe block. The introducing parts of the cycle form the basis area. The topic blocks are			
 harmonic analysis, algebraic structures and representation operator algebra, C* algebra and von-Neumann operator theory, perturbation and scattering theo analysis, distributions; (semi) Riemannian geometry, symplectic and Point 			
One of the aims is that a connection to physical problems is visible, at least in the motivation of the covered topics. Preferably, in the advanced part of the cycle, the students should know and be able to carry out practical applications themselves.			
Core skills:			
After having successfully completed the module, students will be able to			
 conduct scholarly debates about problems of the area "Mathematical methods of physics"; become acquainted with special problems in the area "Mathematical methods of physics" to carry out scientific work for it. 			
Course: M.Mat.4715.Lec Lecture course (Lecture)		2 WLH	
Examination: Oral examination (approx. 20 minutes) M.Mat.4715.Mp: Special course in mathematical methods in physics		3 C	
Examination requirements: Proof of the acquisition of further special skills and the mastery of advanced competencies in the area "Mathematical methods in physics"			
Admission requirements: none	Recommended previous knowledge: B.Mat.3315		
Language: English	Person responsible for module: Dean of studies		
Course frequency:	Duration:		

not specified	1 semester[s]
Number of repeat examinations permitted: twice	Recommended semester: Master: 1 - 3
Maximum number of students: not limited	
Additional notes and regulations: Instructor: Lecturers at the Mathematical Institute	