MATH-620(2) Topics in the theory of reductive algebraic groups, Lie algebras, and representation theory II

Testerman Donna				
Cursus	Sem.	Туре	Language of	English
Mathematics		Opt.	teaching	English
			Credits	3
			Session	
			Exam	Oral
				presentation
			Workload	90h
			Hours	56
			Courses	22
			Exercises	14
			TP	20
			Number of positions	

Frequency

Every year

Remark

Next time: Spring 2021

Summary

The topics addressed in this course are the structure theory of eductive algebraic groups, their associated Lie algebras, the related finite groups of Lie type, and the representation theory of all of these objects.

Content

We start with the basic structure theory of reductive algebraic groups and proceed to study: their representations, the subgroup structure, conjugacy classes, structural results on their Lie algebras, the related finite groups of Lie type, generation problems. The working group is based on advanced textbooks and journal articles.