

Modulbeschreibung für Vertiefungsmodule des Wahlpflichtbereiches

Titel des Moduls	Algebraic curves and Riemann surfaces
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R	X
A	

	Vorlesung	Übung
Umfang	4	2

Inhalt	<p>Abstract: This course will offer a gentle introduction to algebraic geometry by the study of the algebraic curves over the complex numbers (compact Riemann surfaces). Topics to be treated will include Abel's theorem and the Jacobian variety of a Riemann surface, the Riemann-Roch theorem and the study of linear systems, an introduction to sheaves in the context of algebraic curves, theta functions. General references: R. Miranda: Algebraic curves and Riemann surfaces, Graduate Studies in Mathematics 5, American Mathematical Society 1995. O.Forster: Lectures on Riemann surfaces, Springer Graduate Texts in Mathematics, Vol 81, 1999.</p>
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Voraussetzungen	Familiarity with the theory of complex functions. Basic knowledge of manifolds and algebra is also desirable but is not a requirement
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Regelsemester	Keine Empfehlung
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Abschluss	Prüfung oder Leistungsschein
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Prüfungszulassungsvoraussetzung	Keine
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Studienpunkte	10 bei Prüfung, 8 bei Leistungsschein
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R = Reine Mathematik

A = Angewandte Mathematik