

**Plan Lehrangebot Vorlesungen Mathematik**  
**Master Computational Mathematics**  
**für die zukünftigen beiden Semester<sup>1 2</sup>**

**Sommersemester 2021 :**

**Modulgruppe: “Algebra, Geometry and Cryptography”:**

**Computational Algebraic Geometry** (Prof. Dr. Kreuzer)

**Cryptography** (Prof. Dr. Zumbrägel)

**Advanced Commutative Algebra** (Dr. Le Ngoc Long)

**Modulgruppe: “Mathematical Logic and Discrete Mathematics”:**

**Model Theory** (Prof. Dr. Kaiser)

**Efficient Algorithms** (Prof. Dr. Rutter)

**Algorithms for Graph Visualization** (Dr. Sandya TP)

**Modulgruppe: “Analysis, Numerics and Approximation Theory”:**

**Fourier and Laplace Transforms** (Prof. Dr. Forster-Heinlein)

**Continued Fractions** (Prof. Dr. Sauer)

**Functional Analysis** (N.N.)

**Modulgruppe: “Dynamical Systems and Optimization”:**

**Mathematical Systems Theory** (Prof. Dr. Wirth)

**Evolution Equations and Semigroup Theory** (Dr. Mironchenko)

**Modulgruppe: “Stochastics, Statistics”:**

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<sup>1</sup>Vorlesungen für die Modulgruppen 1-5 seitens der Professoren der FIM

<sup>2</sup>Besonders im WS 21/22 wird sich das Angebot durch neue Professuren noch erweitern

## **Wintersemester 2021/22:**

### **Module Group: “Algebra, Geometry and Cryptography”:**

Rings and Modules (Prof. Dr. Zumbrägel)

Computer Algebra (N.N.)

### **Module Group: “Mathematical Logic and Discrete Mathematics”:**

Randomized Algorithms (Prof. Dr. Sudholt)

### **Module Group: “Analysis, Numerics and Approximation Theory”:**

Theory of Distributions (Prof. Dr. Forster-Heinlein)

### **Module Group: “Dynamical Systems and Optimization”:**

Dynamical Systems (Prof. Dr. Wirth)

### **Module Group: “Stochastics, Statistics”:**

Stochastical Analysis (Prof. Dr. Müller-Gronbach)