

Advanced Course Program WS 2010/11

Below please find a selection of Advanced Courses for the winter semester 2010/11. If the class you plan to attend is not listed, please check with the BMS Office if it qualifies as an Advanced Course.

{mospagebreak title=1. Differential geometry, global analysis, and topology}

1. Differential geometry, global analysis, and topology

title: Riemann surfaces (Differentialgeometrie III)

lecturer: Alexander I. Bobenko

type: lecture (4h)

{mospagebreak title=2. Algebra and number theory, algebraic and arithmetic geometry}

2. Algebra and number theory, algebraic and arithmetic geometry

title: Representation theory and arithmetic of two-dimensional schemes

lecturer: Alexey Parshin

type: Block course (5 - 26 October 2010)

title: Algebraic curves and zeta functions

lecturer: Remke N. Kloosterman

type: lecture (4h)

{mospagebreak title=3. Probability theory and financial mathematics}

3. Probability theory and financial mathematics

title: Stochastic Control

lecturer: Carsten Hartmann

type: lecture (2h) + exercises (2h)

time: TUE 12-16, Arnimallee 6, room 009

title: Introduction to Malliavin
calculus

lecturer: Michael Scheutzow

type: lecture (2h)

time: TUE 8-10, TU Berlin, MA 143

{mospagebreak title=4. Discrete mathematics and discrete geometry}

4. Discrete mathematics and discrete geometry

title: Probabilistic Method

lecturer: Tibor Szabo

type: lecture (2h) + exercises (2h)

title: Integer points in polytopes

lecturer: Matthias Lenz, Luca Moci

type: lecture (2h)

{mospagebreak title=5. Linear, nonlinear and combinatorial optimization}

5. Linear, nonlinear and combinatorial optimization

title: Approximation algorithms

lecturer: David Williamson

type: lecture (4h) + exercises (2h)

title: Computational mixed integer programming

lecturer: Andreas Bley

type: Block course (28 February - 11 March 2011)

{mospagebreak title=6. Numerical analysis, scientific computing, and visualisation}

6. Numerical analysis, scientific computing, and visualization

title: TTT

lecturer: N. N.

type: lecture (4h) + exercises (2h)

{mospagebreak title=7. Applied analysis, mathematical physics, and dynamical systems}

7. Applied analysis, mathematical physics, and dynamical systems

title:

lecturer:

type: lecture (4h)

For seminars and colloquia, see also the [Berlin-Potsdam Mathematics Calendar](#)