

Program of the Mathematische Arbeitstagung 2013

Wed, 22 May 2013

- 14:30 - 15:30 Department of Geography, Großer Hörsaal
Registration, refreshments
- 15:30 - 16:30 Department of Geography, Großer Hörsaal
Opening and program discussion
- 16:30 - 17:00 *Tea*
- 17:00 - 18:00 Department of Geography, Großer Hörsaal
JOHN MILNOR (STONY BROOK)
150 years of topology

Thu, 23 May 2013

- 10:00 - 11:00 Department of Geography, Großer Hörsaal
NIGEL HITCHIN (OXFORD)
Higgs bundles and characteristic classes
- 11:00 - 11:30 *Break*
- 11:30 - 12:30 Department of Geography, Großer Hörsaal
PAUL BAUM (PENN STATE)
Geometric structure and the local Langlands conjecture
- 14:30 - 15:30 Department of Geography, Großer Hörsaal
ZOLTAN SZABO (PRINCETON)
Knot Floer homology and bordered algebras
- 16:00 - 18:00 MPIM Tea Room
Tea & Discussions

Fri, 24 May 2013

- 10:00 - 11:00 Department of Geography, Großer Hörsaal
KENJI UENO (KYOTO)
Conformal field theory and topological quantum field theory
- 11:00 - 11:30 *Break*
- 11:30 - 12:30 Department of Geography, Großer Hörsaal
ROB KIRBY
Non-triangulable manifolds
- 14:30 - 15:30 Department of Geography, Großer Hörsaal
MATTHIAS KRECK
Friedrich Hirzebruch, a homogeneous personality
- 16:00 - 18:00 MPIM Tea Room
Tea & Discussions

Sat, 25 May 2013

- 10:00 - 11:00 Department of Geography, Großer Hörsaal
MAXIM KONTSEVICH (IHES)
Gamma class
- 11:00 - 11:30 *Break*
- 11:30 - 12:30 Department of Geography, Großer Hörsaal
FRANCES KIRWAN (OXFORD)
Hyperkähler implosion

Sun, 26 May 2013

- 09:45 - 10:00 Department of Geography, Großer Hörsaal
Program discussion
- 10:00 - 11:00 Department of Geography, Großer Hörsaal
MICHAEL ATIYAH (UNIVERSITY OF EDINBURGH)
The Hirzebruch signature theorem and branched coverings
- 11:00 - 11:30 *Break*
- 11:30 - 12:30 Department of Geography, Großer Hörsaal
HARALD HELFGOTT (ENS)
The ternary Goldbach conjecture
- 14:30 - 19:30 *Boat trip*

Mon, 27 May 2013

- 10:00 - 11:00 MPIM Lecture Hall
MINA TEICHER (BAR-ILAN UNIVERSITY)
Line Arrangements - Topology, Combinatorics and Applications to Algebraic Surfaces
- 11:00 - 11:30 *Break*
- 11:30 - 12:30 MPIM Lecture Hall
SERGEI GUKOV
Complex Chern-Simons theory
- 14:30 - 15:30 MPIM Lecture Hall
GERARD VAN DER GEER (UNIVERSITY OF AMSTERDAM)
A stratification on the moduli of K3 surfaces
- 15:30 - 16:00 MPIM Tea Room
Tea
- 16:00 - 17:00 MPIM Lecture Hall
MARYNA VIAZOVSKA (MPIM)
Optimal spherical designs
- 19:00 - 22:00 *Rector's reception*

Tue, 28 May 2013

- 10:00 - 11:00 MPIM Lecture Hall
GEORDIE WILLIAMSON (MPIM)
An algebraic proof of the Kazhdan-Lusztig conjecture
- 11:00 - 11:30 *Break*
- 11:30 - 12:30 MPIM Lecture Hall
DIARMUID CROWLEY (MPIM)
An invariant of G_2 -structures
- 14:30 - 15:30 MPIM Lecture Hall
DUSA MCDUFF (BARNARD COLLEGE, COLUMBIA UNIVERSITY)
Comparing symplectic and complex geometry
- 15:30 - 17:00 MPIM Tea Room
Tea & Discussions