

Jens Franke



Academic career

1986	PhD, University of Jena
1986 - 1988	Postdoc, Moscow State University, Russia
1988 - 1989	Postdoc, Weierstrass Institute for Applied Analysis and Stochastics, Berlin
1989 - 1989	Postdoc, Max Planck Institute, Bonn
1989 - 1991	Postdoc, Institute for Advanced Study, Princeton, NJ, USA
1991 - 1992	Postdoc, Max Planck Institute, Bonn
Since 1992	Professor (C3), University of Bonn

Honours

1992	EMS Prize
1993	Oberwolfach Prize

Research Projects and Activities

Implementations of the Number Field Sieve and of elliptic curve primality proving
Algorithmic applications to the Weil explicit formula, in particular to the calculation of the prime counting function

Research profile

Automorphic forms
Homological Algebra
Algorithmic algebraic and analytic number theory

Supervised theses

PhD theses: 8, currently 4

Selected PhD students

Matthias Strauch (1997): "Höherentheoretische Zetafunktionen von Faserbündeln über verallgemeinerten Fahnervarietäten",
now Professor, Indiana University, IN, USA

Jürgen Adleff (2000): "Zelluläre Modellkategorien und Grothendieck-Verdier-Dualität in der verallgemeinerten Kohomologie"

Georg Biedermann (2004): "Interpolation Categories for Homology Theories",
now Postdoc, LAGA, University of Paris 13, France

Volker Meusers (2007): "Local $L(2)$ -Cohomology of Shimura Varieties"

Selected publications