

CURRICULUM VITAE

JAN HENDRIK BRUINIER

PERSONAL INFORMATION

- Address: Technische Universität Darmstadt, Fachbereich Mathematik, Schlossgartenstr. 7, D-64289 Darmstadt, Germany
- E-mail: bruinier@mathematik.tu-darmstadt.de
- Home-page: <http://www.mathematik.tu-darmstadt.de/~bruinier>
- Date of birth: October 21, 1971; place of birth: Wiesbaden, Germany
- Family Status: married, 3 children

RESEARCH INTERESTS

- Number theory and Algebraic Geometry; in particular Automorphic Forms and their applications in Geometry and Arithmetic.

CURRENT AND PREVIOUS POSITIONS

- 2007–today: University professor for mathematics, Technische Universität Darmstadt (W3)
- 2003–2007: University professor for mathematics at the Universität zu Köln (C3)
- 2001–2003: Heisenberg Fellow of the DFG (Max-Planck-Institute for Mathematics Bonn and Universität Heidelberg)
- 2000–2001: Van Vleck Visiting Assistant Professor und Number Theory Foundation Post-doctoral Fellow at the University of Wisconsin-Madison
- 1997–2000: Wissenschaftlicher Assistent/Angestellter at the department of mathematics at the Universität Heidelberg

EDUCATION

- 1998–2000: Habilitation in Mathematics at the Universität Heidelberg
- 1997–1998: Dissertation in Mathematics at the Universität Heidelberg, advisor: Eberhard Freitag
- 1992–1997: Studies in Mathematics and Physics at the Universität Heidelberg, graduated with the “Diplom in Mathematik” , advisor: Winfried Kohnen
- 1991–1992: Civil service at the “Arbeiter Samariter Bund” in Niedernhausen
- 1982–1991: Highschool education at the Gutenberg-Gymnasium, Wiesbaden, graduated with the “Abitur”

TEN SELECTED PUBLICATIONS

- *CM values of higher automorphic Green functions for orthogonal groups* (with S. Ehlen and T. Yang), *Invent. Math.* **225** (2021), 693–785.
- *Modularity of generating series of divisors on unitary Shimura varieties* (with B. Howard, S. Kudla, M. Rapoport, and T. Yang), *Astérisque* **421** (2020), 7–125.
- *Kudla’s modularity conjecture and formal Fourier-Jacobi series* (with M. Westerholt-Raum), *Forum of Math. Pi*, vol. **3** (2015), 30 pp.
- *Heights of Kudla-Rapoport divisors and derivatives of L-functions* (with B. Howard and T. Yang), *Invent. Math.* **201** (2015), 1–95.
- *Regularized theta lifts for orthogonal groups over totally real fields*, *J. Reine Angew. Math.* **672** (2012), 177–222.
- *Heegner divisors, L-functions and harmonic weak Maass forms* (with K. Ono), *Annals of Math.* **172** (2010), 2135–2181.
- *Faltings heights of CM cycles and derivatives of L-functions* (with T. Yang), *Invent. Math.* **177** (2009), 631–681.
- *Borcherds products and arithmetic intersection theory on Hilbert modular surfaces* (with J. I. Burgos Gil and U. Kühn), *Duke Math. Journal* **139** (2007), 1–88.
- *On Two Geometric Theta Lifts* (with J. Funke), *Duke Math. Journal* **125** (2004), 45–90.
- *Borcherds products on $O(2, l)$ and Chern classes of Heegner divisors*, *Springer Lecture Notes in Mathematics* **1780**, Springer-Verlag (2002), 152 pages.