

# LENNY TAE LMAN

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## Personalialia

- *Place and date of birth:* Ghent, Belgium, 31 March 1980

## Positions

- **Universiteit Leiden**—Leiden, the Netherlands  
*Assistant professor (tenure track)—since 07.2010*
- **École Polytechnique Fédérale de Lausanne**—Lausanne, Switzerland  
*Postdoc—01.2010–07.2010*
- **University of Pennsylvania**—Philadelphia, USA  
*Visiting researcher—11.2009–12.2009*
- **Universiteit Leiden**—Leiden, the Netherlands  
*Postdoc—09.2007–12.2009*

## Education

- **Ph.D.**—University of Groningen, the Netherlands. *Cum laude.* 05.2007  
Advisors: M. van der Put and J. Top.
- **M.Sc.**—University of Ghent, Belgium. 07.2002

## Publications

- (with B. Anglès) On a problem à la Kummer-Vandiver for function fields. *J. Number Theory* (2012)
- A Herbrand-Ribet theorem for function fields. *Invent. Math.* (2011)
- Special  $L$ -values of Drinfeld modules. *Ann. of Math.* **175** (2012), 369–391
- The Carlitz shtuka. *J. Number Theory* **131** (2011), 410–418
- $1-t$ -motifs. To appear in the *Proceedings of the Banff workshop on  $t$ -motives*
- A Dirichlet unit theorem for Drinfeld modules. *Math. Ann.* **348** (2010), 899–907
- Special  $L$ -Values of  $t$ -Motives: A Conjecture. *Int. Math. Res. Not.* rnp038 (2009)

- Artin  $t$ -Motifs. *J. Number Theory* **129** (2009), 142–157
- (with M. van der Put) Local  $p$ -adic Differential Equations. *p-Adic Mathematical Physics, AIP Conference Proceedings*, Vol. 826, 2006, 291–297
- Dieudonné determinants for skew polynomial rings. *J. Algebra Appl.* **5** (2006), 89–93
- (with J. Bosman) On sums of sums of values of Dirichlet characters. *Nieuw Arch. Wiskd. (5)* **2** (2001), no. 2, 133–134

## Research grants

- **Vrije competitie**—Grant from NWO for one PhD position (200,000 euro)  
*awarded 01.2012*
- **VENI**—Personal grant from NWO (250,000 euro)  
*awarded 10.2009*

## Teaching & outreach

- **as lecturer**
  - 2012: Topology, Algebraic Geometry, Advanced Algebraic Geometry
  - 2011: Topology, Wiskundige structuren
  - 2010: Wiskundige structuren
  - 2009: Calculus for chemists, Algebraic Geometry, Topology
  - 2007: Algebra 2
  - 2006: Algebra
  - 2005: Algebra, Calculus for computer scientists, Mathematics for biologists
  - 2004: Mathematics for biologists
- **supervision**
  - PhD: Alberto Gioia (expected 2013), Jinbi Jin (expected 2015)
  - Master: Zongbin Chen (2008), Oliver Lenz (2011)
  - Bachelor: Nick Towner (2012), Raymond van Bommel (2012), Johan Commelin (2011), Alexander Tonkelaar (2011), Elias Weber (2010), Afke Schouten (2009), Oliver Lenz (2008)
- **outreach**
  - 2012: advanced course for high school students
  - 2010: supervision of a mathematics project by high school students
  - 2008: summer course for teachers, advanced course for high school students
  - 2007: advanced course for high school students
- **awards**
  - 2011: mathematics nominee for faculty-wide “best teacher” award

- 2006: mathematics nominee for faculty-wide “best teacher” award

## Invited lectures

- **conferences**

- 2012: Number Theory (Göttingen)
- 2011: Arithmetic geometry (Stellenbosch), Rencontres arithmétiques (Caen), Function fields (London), Explicit methods in number theory (Oberwolfach)
- 2010: Stieltjesweek (Amsterdam), Iwasawa theory over function fields (Barcelona), Drinfeld modules and  $L$ -functions (Barcelona)
- 2009: Dutch Mathematical Congress (Groningen),  $t$ -motives (Banff)
- 2008: DIAMANT symposium (Oegstgeest)
- 2007: Arithmetic and differential Galois groups (Oberwolfach)
- 2005:  $p$ -adic mathematical physics (Belgrade)
- 2002: Drinfeld modules and rigid geometry (Ghent)

- **number theory/geometry/algebra seminars**

- 2012: Caen, UvA Amsterdam
- 2011: Grenoble, HU Berlin, Leuven (2x), Lille, ETH Zürich, Essen, Autónoma Madrid, ENS Lyon
- 2010: ICNTS (2x), EPF Lausanne, ETH Zürich, London NTS, Amsterdam (2x), Ohio State
- 2009: Aachen, UPenn (2x), Penn State, Ohio State, Tucson
- 2008: Heidelberg, ICNTS, Essen (2x), VU Amsterdam
- 2007: ETH Zürich, Münster, Hannover, ICNTS, Eindhoven
- 2006: ICNTS, Utrecht
- 2005: Toulouse, ICNTS
- 2004: Utrecht
- 2003: ICNTS
- 2002: Netherlands Intercity Number Theory Seminar (ICNTS)

- **department colloquia**

- 2011: University of Amsterdam
- 2009: University of Arizona

## Other academic activities

- Editor of *Journal of Number Theory* (2010–2012)
- *Compositio Priz*e committee (2012)
- **organisation of conferences**
  - 2013: *Trends in arithmetic geometry* (with J. Nicaise)
  - 2011: *Abel in Holland* (with the Norwegian Academy of Sciences)

- 2010: *Arithmetic of Surfaces* (with H.W. Lenstra, R. van Luijk and C. Salgado)
  - 2009: *Counting Points on Varieties* (with T. Chinburg and R. van Luijk)
  - 2008: Poster session of the *5th European Conference of Mathematics*
  - 2007: *MariusFest*, retirement conference for M. van der Put (with J. Top)
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- Problem selection committee *International Mathematical Olympiad* 2011
  - Coordinator of the Leiden mathematics colloquium (since 2010)
  - Coordinator of the Leiden Algebra, Geometry and Number Theory Seminar
  - Editor of the problem section of *Nieuw Archief voor Wiskunde* (since 2007)
  - Reviewer for *Zentralblatt* (since 2007)