

List of Publications

Research Articles/Books

- [1] Witt groups of real projective surfaces, *Math. Ann.* 288, 89-101 (1990).
- [2] (with R. Parimala) Witt groups of hyperelliptic curves, *Comm. Math. Helv.* 85, 559-590 (1990).
- [3] (with R. Parimala) Levels of non-formally real function fields of real rational surfaces, *Amer. Jour. of Math.* 113, 757-761 (1991).
- [4] (with V. V. Nikulin) On Brauer groups of real Enriques surfaces, *Crelle Journal* 444, 115-155 (1993).
- [5] (with J.-L. Colliot-Thélène) Unramified Witt groups of real anisotropic quadrics, *Proceedings of Symposia in Pure Math*, Vol 58 (2), 127-147 (1995).
- [6] (with S. Saito) Finiteness theorems for unramified cohomology groups of surfaces over p -adic fields and application to Witt groups, *Proceedings of Symposia in Pure Math*, Vol 58 (2), 403-415 (1995).
- [7] On the Hasse principle for Witt groups, *Math. Ann.* 302, 215-224 (1995).
- [8] (with R. Parimala) The Hasse principle for Witt groups of function fields with special reference to elliptic curves, *Duke Math. Jour.*, Vol 85, 555-582 (1996).
- [9] Unramified cohomology and Witt groups of anisotropic Pfister quadrics, *Transactions of the AMS.*, Vol. 349, 2341-2358 (1998).
- [10] (with B. Kahn and M. Rost) Unramified cohomology of quadrics I, *Amer. Jour. Math.*, Vol. 120, 841-891 (1998).
- [11] (with Y. Z. Flicker, C. Scheiderer) Grothendieck's theorem on non-abelian H^2 and local global principles, *Jour. Amer. Math. Soc.*, Vol. 11, 731-750 (1998).
- [12] (with J. van Hamel) Level and Witt groups of real Enriques surfaces, *Pacific Jour. Math.*, Vol 196, 243-255 (2000).
- [13] (with J. Coates) Galois cohomology of Elliptic curves, TIFR-AMS Lecture notes, Narosa publishing House (2000).
- [14] (with J. Coates) Euler-Poincaré characteristics of abelian varieties, *C.R. Acad. Sc. I Paris*, t. 329, 309-313 (1999).
- [15] (with B. Kahn) Motivic cohomology and unramified cohomology of quadrics, *Journal of European Math. Soc.* 2, 145-177 (2000)
- [16] (with B. Kahn) Unramified cohomology of quadrics II, *Duke Math. Jour.*, Vol 106, 449-484 (2001).
- [17] (with J. Coates, J.-P. Wintenberger), On the Euler-Poincaré characteristics of finite dimensional p -adic Galois representations, *Publ. Math. IHES*, Vol 93, 107-143 (2001).
- [18] Euler-Poincaré characteristics of p -adic Lie groups and arithmetic, *Proceedings of the International Conference on Algebra, Arithmetic and Geometry*, TIFR, Bombay, (2000).
- [19] (with U. Jannsen), Level of function fields of surfaces over number fields, *Journal of Algebra*, 251 (2002), 350–357.
- [20] (with J. Coates and P. Schneider), Modules over Iwasawa algebras, *J.Inst. Math. Jussieu* 2 (2003), no. 1, 73–108.
- [21] (with J. Coates, P. Schneider), Links between cyclotomic and GL_2 Iwasawa theory, *Documenta Mathematica*, Special volume in honour of K. Kato's fiftieth birthday, (2003), 217–225.

- [22] (with J. Coates), Fine Selmer groups of elliptic curves over p -adic Lie extensions, *Math. Annalen*, 331 (2005), 809-839.
- [23] (with J. Coates, K. Kato, T. Fukaya, O. Venjakob), The GL_2 Main Conjecture for elliptic curves without complex multiplication, *Publ. Math. IHES.* 101 (2005) 163-208.
- [24] (with J. Coates) Fine Selmer groups for elliptic curves with complex multiplication, ‘Algebra and Number Theory’, Proceedings of the Silver Jubilee Conference of University of Hyderabad, Hindustan Book Agency, ed. R. Tandon, (2005), 327–337.
- [25] (with J. Coates), Appendix; Computations in non-commutative Iwasawa theory, by T. Dokchitser and V. Dokchitser, *Proceedings of the LMS*, 94 (2006), 211–272.
- [26] (with J. Coates), Cyclotomic fields and zeta values, *Springer Monographs in Mathematics*, (2006).
- [27] Iwasawa theory and modular forms, *Pure and Applied Math. Quarterly*, Invited contribution, Special Volume in honour of J. Coates, 2 (2006), 519–538.
- [28] (with B. Kahn), Two localisation theorems, *Homology, Homotopy and Applications*, Vol. 9 (2007), 137–161.
- [29] (with J. Coates, T. Fukaya, K. Kato), Root numbers, Selmer groups and non-commutative Iwasawa theory, *Journal of Algebraic Geometry*, To appear in *Journal of Algebraic Geometry*.
- [30] (with J. Coates, Z. Liang), The Tate-Shafarevich group for elliptic curves with complex multiplication, *J. algebra*, 322 (2009), 657–674.

Preprints

- [1] (with B. Kahn), Birational motives, (preliminary version), www.math.jussieu.fr/~kahn
- [2] (with B. Kahn), Birational geometry and localisation of categories, preprint, www.math.jussieu.fr/~kahn

Others

- [1] Raman Parimala, A distinguished Mathematician, *The Mathematics Student*, Vol 74, 193-197 (2005).
- [2] Leonhard Euler: A life of Mathematics, *The Mathematics Student*, To appear (2008).
- [3] Local-Global Principles, Proceedings of the fourth International Congress of Chinese Mathematicians, Hangzhou, *Advanced Lectures in Mathematics* 5, ed. Lizhen Ji, Kefeng Liu, Lo Yang, Shing-Tung Yau, 241–252 (2007).
- [4] Root numbers and rational points on elliptic curves, *Perspectives in Mathematical Sciences II*, on the occasion of the Platinum Jubilee of Indian Statistical Institute, Edited by N.S.N. Sastry et. al, World Sci. Publ. 185–198 (2009).
- [5] Arithmetic of elliptic curves through the ages, *Proceedings of the EWM Conference* (To appear).
- [6] Motives from a categorical point of view, To appear in the *Proceedings of the Franco-Asian Conference on Motives*, IHES (2006) (To appear).
- [7] (with J. Coates) The Main Conjecture, *Lectures at the Guwhati ATM School*

(2008), To be Published by the RMS.

[8] On Iwasawa's $\mu = 0$ conjecture for elliptic curves, Quadratic forms, Algebraic Groups and Galois Cohomology, Proceedings of a Conference held at University of Hyderabad, 2008, To appear in Developments in Mathematics, Springer (2010).

[9] On the μ invariant in Iwasawa theory, Invited contribution to the volume 'Women in Numbers', To appear.