Dinesh S. Thakur
List of publications and preprints

Mathematics publication list ordered by the year of publication, followed by preprints, followed by publications by category and non-math publications


32. $L$-functions and modular forms in finite characteristic, Proceedings of the International conference on Cohomology of arithmetic groups, $L$-functions and Automorphic forms, Mumbai 1998, Edited by T. N.
Venkataramana (2001), 214-228. Published for Tata Institute of Fundamental Research by Narosa Publ., distributed by AMS.


39. (Book, Edited with David Savitt) ‘p-adic geometry: Lectures from the 2007 Arizona Winter School’ containing articles based on lectures at the school by Conrad, Teitelbaum (Dasgupta), Baker, Kedlaya and contributions by John Tate and Vladimir Berkovich. Published by


45. Recent progress and open problems in function field arithmetic – The influence of John Tate’s work—-, Pure and Applied Mathematics Quarterly, Vol. 6, No. 1, (Special issue: In honor of John Tate, part 2 of 2) 1-20 (2010).


46. (Joint with C.-Y. Chang, M. Papanikolas, J.Yu) Algebraic independence of arithmetic gamma values and Carlitz zeta values, Advances in Mathematics, 223 (2010), 1137-1154.


65. (Joint with Greg Anderson) Ihara power series for $F_q[t]$, (Work in progress)

66. Automata methods in transcendence, based on lectures given in a mini-course at ETH and Banff workshop. (For proceedings of Banff workshop on Hodge theory, transcendence and other motivic aspects, to be pub. by EMS)

67. Multizeta in function field arithmetic, based on lecture at Banff workshop. (For proceedings of Banff workshop on Hodge theory, transcendence and other motivic aspects, to be pub. by EMS)

68. Surprising symmetries in distribution of prime polynomials. (Work in progress, preprint on Arxives).

Publications by category

Thesis and Articles in Research Journals:


(17) Patterns of continued fractions for the analogues of e and related numbers in the function field case – J. Number Theory, 66 (1997), 129-147.

(18) (Jointly with Jean-Paul Allouche) Automata and transcendence of


(24) Multizeta values for function fields – Preprint (Incorporated parts in the book ‘Function Field Arithmetic’).


**In preparation**

(i) (Joint with Greg Anderson) Ihara power series for $F_q[t]$.

(ii) Surprising symmetries in distribution of prime polynomials. (Work in progress, preprint on Arxives).

**Books:**


(4) (Co-author) Transcendance et irrationalite—Journees Annuelles, Societe Mathematique de France 2012.


**Conference proceedings papers in books or Journals based on lectures:**


(DION 2005), TIFR December 2005.


(13) Automata methods in transcendence, based on lectures given in a minicourse at ETH and Banff workshop. (For proceedings of Banff workshop to be pub. by EMS)

(14) Multizeta in function field arithmetic, based on lecture at Banff workshop. (For proceedings of Banff workshop to be pub. by EMS)


Other contributions to books and Journals

(1) Recent progress and open problems in function field arithmetic — The influence of John Tate’s work— In special issue Vol. 6, No. 1 (2010), 1-20 (edited by L. Ji, S. T. Yau and J. K. Yu) of Pure and Applied Mathematics Quarterly honoring John Tate.


Expository articles not based on my research:


Non-math articles (not in the lists above)

(1) ‘Bhaikaka’ (in Marathi), pub. 8 June 08, in Sunday literary supplement of Daily Loksatta.
web.math.rochester.edu/people/faculty/dthakur2/BhaikakaLoksatta.pdf
(2) ‘Ganitaachaarya Shreeram Abhyankar’ (in Marathi), pub. 21 July 2013, in Sunday literary supplement of Daily Loksatta.
web.math.rochester.edu/people/faculty/dthakur2/abhyankarloksatta.pdf
web.math.rochester.edu/people/faculty/dthakur2/ShrutiResonance.pdf