

PUBLICATIONS

Research Monograph

- H. Tamanoi: ELLIPTIC GENERA AND VERTEX OPERATOR SUPER ALGEBRAS.
390pp. (Springer Lecture Notes in Mathematics, Volume 1705, 1999.)
- CHAPTER I : Elliptic Genera.
CHAPTER II : Vertex operator super algebras.
CHAPTER III : G -invariant vertex operator super algebras.
CHAPTER IV : Geometric structures in vector spaces and reductions of structure groups on manifolds.
CHAPTER V : Infinite dimensional symmetries in elliptic genera for Kähler manifolds.

Journal Articles and Preprints

- (1) J. Morava and H. Tamanoi: *A vanishing theorem for the conformal anomaly*. Proceedings of the AMS., vol.100, 767-774, (1987).
- (2) H. Tamanoi: *Elliptic genera and vertex operator super algebras*. Proc. Japan Acad., **71**, Ser.A 177–181 (1995).
- (3) H. Tamanoi: *Higher Schwarzian operators and combinatorics of Schwarzian derivative*. Math. Ann. 305(1996), pp. 127–151.
- (4) H. Tamanoi: *The image of BP-Thom maps for Eilenberg-MacLane spaces*. Transactions of AMS, vol 349 (1997) 1209–1237.
- (5) H. Tamanoi: *Multiplicative indecomposable splittings of $MSp_{[2]}$* . Mathematische Zeitschrift, 225(1997), pp. 577–610
- (6) H. Tamanoi: *Q -subalgebras, Milnor basis, and cohomology of Eilenberg–Mac Lane spaces*. Journal of Pure and Applied Algebra, 132(1999), pp. 153–198
- (7) H. Tamanoi: *Invariant symmetric pairings in vertex operator super algebras and Gramians*. J. Pure and Applied Algebra 140(1999), pp. 149–189.
- (8) H. Tamanoi: *Spectra of BP-linear relations, v_n -series, and BP-cohomology of Eilenberg–Mac Lane spaces*. TransAmerMathSoc; 352(2000), no.11, 5139–5178.
- (9) H. Tamanoi : *Generalized orbifold Euler characteristics of symmetric products and equivariant Morava K -theory*. Algebraic and Geometric Topology, Vol.1(2001), 115–141.
- (10) R. Molzon and H. Tamanoi: *Generalized Schwarzians in several variables and Möbius invariant differential operators*. Forum Mathematicum, vol.14, no.2(2002), 165–188.
- (11) A. Baker and H. Tamanoi: *Invariants for finite dimensional groups in vertex operator algebras associated to basic representations*. CRM Proceedings and Lecture Notes, Vol.30(2001), 1–13.

- (12) H. Tamanoi: *Genera defined by hyperelliptic integrals and Siegel modular functions*. J. Pure and Applied Algebra, Vol 172(2002), no.2-3, 305–323.
- (13) H. Tamanoi: *Generalized orbifold Euler characteristics of symmetric orbifolds and covering spaces*. Algebraic and Geometric Topology, Volume 3 (2003) 791–856.
- (14) H. Tamanoi: *Batalin-Vilkovisky Lie algebra structure on the loop homology of complex Stiefel manifolds*. International Mathematics Research Notices, Volume 2006, Article ID 97193, pages 1-23.
- (15) H. Tamanoi: *Infinite product decomposition of orbifold mapping spaces*. Algebraic & Geometric Topology 9 (2009) 569–592.
- (16) H. Tamanoi: *Cap products in string topology*. Algebraic & Geometric Topology 9 (2009) 1201–1224.
- (17) H. Tamanoi : *Stable string operations are trivial*. International Mathematics Research Notices, Article ID: rnp104, 44 pages. Advance Access published July 13, 2009.
- (18) H. Tamanoi : *Loop coproducts in string topology and triviality of higher genus TQFT operations*. In press, Journal of Pure and Applied Algebra, 2009. 15 pages.
- (19) H. Tamanoi : *A homotopy theoretic proof of the BV identity in loop homology*, arXiv:0706.1277, 13 pages.
- (20) H. Tamanoi : *Topological quantum field theory string operations in open-closed string topology*, arXiv:0803.1038, 21 pages.
- (21) H. Tamanoi : *Open-Closed topological quantum field theory string operations for disc cobordisms, simultaneous saddle interactions, and constant homology classes*, arXiv:0803.1041, 34 pages.