

1. Record Nr.	UNINA9910146308203321
Autore	Tamanoi Hirotaka <1958->
Titolo	Elliptic Genera and Vertex Operator Super-Algebras // by Hirotaka Tamanoi
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1999
ISBN	3-540-48788-3
Edizione	[1st ed. 1999.]
Descrizione fisica	1 online resource (VIII, 396 p.)
Collana	Lecture Notes in Mathematics, , 1617-9692 ; ; 1704
Disciplina	512.55
Soggetti	Algebra Algebraic topology Nonassociative rings Mathematical physics Algebraic Topology Non-associative Rings and Algebras Theoretical, Mathematical and Computational Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	and summary of results -- Elliptic genera -- Vertex operator super algebras -- G-invariant vertex operator super subalgebras -- Geometric structure in vector spaces and reduction of structure groups on manifolds -- Infinite dimensional symmetries in elliptic genera for Kähler manifolds.
Sommario/riassunto	This monograph deals with two aspects of the theory of elliptic genus: its topological aspect involving elliptic functions, and its representation theoretic aspect involving vertex operator super-algebras. For the second aspect, elliptic genera are shown to have the structure of modules over certain vertex operator super-algebras. The vertex operators corresponding to parallel tensor fields on closed Riemannian Spin Kähler manifolds such as Riemannian tensors and Kähler forms are shown to give rise to Virasoro algebras and affine Lie algebras. This monograph is chiefly intended for topologists and it includes accounts on topics outside of topology such as vertex operator algebras.

