

Song, Ruifang

Elliptic genera of homogeneous spin manifolds and theta functions identities. (English)

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Summary: By the Witten rigidity theorem and the Atiyah-Bott-Segal-Singer Lefschetz fixed point formula, the elliptic genus of a homogeneous spin manifold G/H can be expressed as a sum of theta functions quotients over the Weyl group of G . Consequently, we obtain several classes of combinatorial identities of theta functions.

MSC:

58J26 Elliptic genera

11F27 Theta series; Weil representation; theta correspondences

58J20 Index theory and related fixed-point theorems on manifolds

Cited in **1** Review
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Keywords:

fixed point formula; Witten rigidity theorem; elliptic genus; Jacobi theta functions

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