

1016-22-276

Robert J Stanton* (stanton@math.ohio-state.edu), Ohio State University, Department of Mathematics, 231 W. 18th Ave, Columbus, OH 43210. *Proportionality at the level of heat operators.*

Let X be a compact locally symmetric Hermitian manifold and M the corresponding compact symmetric space. Let E_λ (resp. V_λ) be an associated Hermitian vector bundle on X (resp. M). We shall relate a specific combination of traces of heat operators associated to E_λ to those for V_λ . The combination of traces of heat operators that are considered are those used to compute the holomorphic torsion associated to E_λ and V_λ . This is in collaboration with H. Moscovici. (Received February 14, 2006)