

1077-57-1401      **Nicholas D Nguyen\*** (ndn004@math.ucsd.edu). *The adjoint action on homotopy-associative H-spaces.*

Kono and Kozima introduce the adjoint action and commutator map for compact Lie groups and use the maps to characterize the commutativity of the homology ring. Iwase would extend their results to finite loop spaces.

In this paper, we extend Iwase's results to finite homotopy-associative H-spaces by finding useful formulas for the induced homomorphisms. (Received September 19, 2011)