Turkish Journal of Mathematics

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KO-groups of Bounded Flag Manifolds

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Abstract: We exhibit an appropriate suspension of bounded flag manifolds as a wedge sum of Thom complexes of associated complex line bundles. We use the existence of such a splitting to assist our computation of real and complex K-groups. Moreover, we compute the Sq^2-homology of bounded flag manifolds to make use of relevant Atiyah-Hirzebruch spectral sequence of KO-theory.

Key Words: Bounded flag manifolds, Sq^2-homology, KO-theory, toric variety, stably complex structure.