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On the Cohomology Ring of the Infinite Flag Manifold LG/D

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Abstract: In this work, we discuss the calculation of cohomology rings of LG / T . First we describe the root system and Weyl group of LG , then we give some homotopy equivalences on the loop groups and homogeneous spaces, and investigate the cohomology ring structures of LSU_2 / T and ΩSU_2 . Also we prove that BGG-type operators correspond to partial derivation operators on the divided power algebras.

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