

Item: 1 of 1 | [Return to headlines](#)[MSN-Support](#) | [Help Index](#)Select alternative format: [BibTeX](#) | [ASCII](#)

MR585652 (82b:57020)**[Hurder, S.](#); [Kamber, F. W.](#)****Homotopy invariants of foliations.**

Topology Symposium, Siegen 1979 (Proc. Sympos., Univ. Siegen, Siegen, 1979), pp. 49–61, Lecture Notes in Math., 788, Springer, Berlin, 1980.

[57R30](#)

Journal

Article

Doc
Delivery

References: 0**Reference Citations: 0****[Review Citations: 1](#)**

Let G be a reductive Lie group and $I(G)_l$ the ring of invariant polynomials on G modulo the ideal of elements of degree $> 2l$. Let $\Pi(I(G)_l)$ and $\Pi(X)$ be the graded Lie algebras associated with the DG-algebra $I(G)_l$ and with the de Rham algebra of a manifold X , respectively. If X is a G -foliated manifold then the Chern-Weil homomorphism induces a map $h: \Pi(X) \rightarrow \Pi(I(G)_l)$ which factors through $\Pi(B\Gamma_G^q)$. The purpose of this note is to determine the Lie algebra structure of $\Pi(I(G)_l)$ and to detect the elements in the image of $\Pi(B\Gamma_G^q)$ in $\Pi(I(G)_l)$. The relationship of h with the characteristic homomorphism for G -foliations is also studied.

{For the entire collection see [81i:57001](#)}

Reviewed by *B. Cenk*

© Copyright American Mathematical Society 1982, 2004