

## Structure of function algebras on foliated manifolds

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### Abstract

We consider a manifold  $M$  with a foliation  $F$  given by a locally free action of a commutative Lie group  $H$ . Also we assume that there exists an integrable Ehresmann connection on  $(M, F)$  invariant with respect to the action of the group  $H$ . We get the structure of the restriction of the algebra  $C_0(M)$  to the leaves in three partial cases. Also we consider a classification of the quasiinvariant measures and means on the leaves of  $F$ .

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### Keywords

Foliation, Group action Ehresmann connection, Groupoid, Invariant metric, Leaf function, Quasiinvariant measure