

# **Transverse Conformal Killing Forms on Foliated Manifolds**

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## **Abstract**

On a foliated manifold, a transversal Killing field is a transversal infinitesimal isometry, i.e., its flow preserves the transverse metric and a transversal conformal field is a normal field with a flow preserving the conformal class of the transverse metric. Since the space of transversal infinitesimal automorphisms can be identified with the space of the basic 1- forms, we can consider natural generalizations to differential forms, which are called transverse Killing forms and conformal forms. In this talk, we give some properties of the transverse conformal fields on foliated manifolds.