Tsuboi, Takashi

Foliated cobordism classes of certain foliated S^1-bundles over surfaces. (English)

Zbl 0555.57011
Topology 23, 233-244 (1984).

For foliated circle bundles over oriented surfaces with a particular structure group, it is shown that the Godbillon-Vey invariant is a complete invariant for C^∞-foliated cobordism classes. In particular, *W. Thurston*'s examples [Bull. Am. Math. Soc. 78, 511- 514 (1972; Zbl 0266.57004)] are cobordant to zero if their Godbillon-Vey invariants are zero.

Reviewer: S.Goodman

MSC:

57R30 Foliations in differential topology; geometric theory
57R32 Classifying spaces for foliations; Gelfand-Fuks cohomology
57R90 Other types of cobordism

Keywords:

foliated circle bundles over oriented surfaces; Godbillon-Vey invariant; foliated cobordism classes

Full Text: DOI