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**Wojciech Dorabiala\***, Department of Mathematics, Penn State Altoona, 3000 Ivyside Park, Altoona, PA, and **Bernard Badzioch, John Klein** and **Bruce Williams**. *Secondary Transfer and Higher Reidemeister Torsion*.

Let  $p: E \rightarrow B$  be a smooth bundle of compact manifolds. We will show that if the fundamental group of  $B$  acts trivially on the rational homology of the fibers, then the bundle  $p$  gives rise to a secondary transfer map defined on the level of Whitehead spaces. This secondary transfer map can be used to give an alternative construction of the smooth torsion invariant of the bundle  $p$  defined by Dwyer, Weiss and Williams. As an application of this secondary transfer, we obtain a composition formula for the smooth torsion invariant. (Received January 21, 2008)