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Finite spaces and the universal bundle of a group

Comment.Math.Univ.Carolinae 38,4 (1997) 791-799.

Abstract: We find sufficient conditions for a cotriad of which the objects are locally trivial fibrations, in order that the push-out be a locally trivial fibration. As an application, the universal G -bundle of a finite group G , and the classifying space is modeled by locally finite spaces. In particular, if G is finite, then the universal G -bundle is the limit of an ascending chain of finite spaces. The bundle projection is a covering projection.

Keywords: covering projection, fibration, finite space, push-out

AMS Subject Classification: Primary 55R65; Secondary 54B17, 54B15