

NILPOTENT SUBGROUPS OF THE GROUP OF FIBRE HOMOTOPY EQUIVALENCES

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Abstract

Let $\xi = (E, p, B, F)$ be a Hurewicz fibration. In this paper we study the space $\mathcal{L}_G(\xi)$ consisting of fibre homotopy self equivalences of ξ inducing by restriction to the fibre a self homotopy equivalence of F belonging to the group G . We give in particular conditions implying that $\pi_1(\mathcal{L}_G(\xi))$ is finitely generated or that $\mathcal{L}_1(\xi)$ has the same rational homotopy type as $\text{aut}_1(F)$.

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