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 $\xi$ 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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