

CONDIÇÕES DE FINITUDE PARA OS GRUPOS DE HOMOTOPIAS E APLICAÇÕES

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ABSTRACT. Brown and Loday presented an algebraic description of the third triad homotopy group the non-abelian tensor product of groups

$$\pi_3(X; A, B) \simeq \pi_2(A, C) \otimes \pi_2(B, C).$$

By using the relative homotopy long exact sequences and the third triad homotopy group, Ellis and McDermott obtain interesting bound to the order of $\pi_3 X$. We have obtained a more general version, in contrast to their bound, we do not require that $\pi_2(A, C)$ and $\pi_2(B, C)$ be finite groups and also there is no need to estimate $\pi_2(X, C)$. In this talk, we are going to give some application of this theory to Conley Index Theory.

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