

**White, Brian**

**Infima of energy functionals in homotopy classes of mappings.** (English) Zbl 0588.58017  
*J. Differ. Geom.* 23, 127-142 (1986).

The author shows that the infimum of functionals such as  $\int |Df|^p$  among  $f : M \rightarrow N$  homotopic to a given map  $g$  depends only on the homotopy class of the restriction of  $g$  to the  $[p]$ -dimensional skeleton of  $M$ . For example, if  $M = N$  and  $g$  is the identity map, then the infimum is zero if and only if the first  $[p]$  homotopy groups of  $M$  are trivial.

**MSC:**

58E20 Harmonic maps, etc.

55Q05 Homotopy groups, general; sets of homotopy classes

Cited in **1** Review  
Cited in **46** Documents

**Keywords:**

infimum of functionals;  $[p]$ -dimensional skeleton; homotopy groups

**Full Text:** [DOI](#)