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π_1 et d_2 . (French) [Zbl 0548.55014](#)

Homotopie algébrique et algèbre locale, Journ. Luminy/France 1982, Astérisque 113-114, 234-237 (1984).

Summary: [For the entire collection see [Zbl 0535.00017](#).]

Given a bundle $X \rightarrow E \rightarrow V$ with $\pi_1(V)$ not zero. Besides the monodromy of local systems $H_*(X)$ or $\pi_*(X)$ associated to E and which appear in the E^2 -terms of the Serre spectral sequence (or generalized Shih spectral sequence [see the author, Homotopie des espaces de sections (1982; [Zbl 0535.55001](#))] the differentials d_2 of these spectral sequences bring us $\pi_1(V)$ actions on $H_*(X)$ or $\pi_*(x)$. We explain here these actions.

MSC:

- [55R20](#) Spectral sequences and homology of fiber spaces in algebraic topology
- [55R05](#) Fiber spaces in algebraic topology
- [55T10](#) Serre spectral sequences
- [55N25](#) Homology with local coefficients, equivariant cohomology
- [18G40](#) Spectral sequences, hypercohomology
- [18G15](#) Ext and Tor, generalizations, Künneth formula (category-theoretic aspects)

Keywords:

monodromy of local systems associated to a fibration; differentials of spectral sequences; Serre spectral sequence