

Quick proof Let (X_α, A_α) , $\alpha \in \mathcal{A}$, be a family of pairs of spaces.

$$\text{Then } H_p\left(\coprod_{\alpha \in \mathcal{A}} X_\alpha, \coprod_{\alpha \in \mathcal{A}} A_\alpha\right) \cong \bigoplus_{\alpha \in \mathcal{A}} H_p(X_\alpha, A_\alpha)$$

$\xleftarrow{\cong}$ is induced by the inclusions $(X_\alpha, A_\alpha) \rightarrow \left(\coprod_{\alpha \in \mathcal{A}} X_\alpha, \coprod_{\alpha \in \mathcal{A}} A_\alpha\right)$.

proof of the five statement.

Put $X = \coprod X_\alpha$, $A := \coprod A_\alpha$. Fix $p \in \mathbb{Z}$.

(vertic. maps induced by inc.)

$$\begin{array}{ccccccccc} \cdots & \rightarrow & H_p(A) & \rightarrow & H_p(X) & \rightarrow & H_p(X, A) & \rightarrow & H_{p-1}(A) & \rightarrow & H_{p-1}(X) & \rightarrow \cdots \\ & & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & \\ \cdots & \rightarrow & \bigoplus_{\alpha \in \mathcal{A}} H_p(A_\alpha) & \rightarrow & \bigoplus_{\alpha \in \mathcal{A}} H_p(X_\alpha) & \rightarrow & \bigoplus_{\alpha \in \mathcal{A}} H_p(X_\alpha, A_\alpha) & \rightarrow & \bigoplus_{\alpha \in \mathcal{A}} H_{p-1}(A_\alpha) & \rightarrow & \bigoplus_{\alpha \in \mathcal{A}} H_{p-1}(X_\alpha) & \rightarrow \cdots \end{array}$$

The additivity axiom says the 1'st, 2'nd, 4'th, 5'th vertical maps are iso's.
By the 5-lemma the mid vert. map is also an iso.

Algebraic Topology Algebraic Topology

TD Snyder



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