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Chain complex of differential forms relative to a submanifold

Let

$$\iota_N : N \rightarrow M$$

be the inclusion map of the submanifold N of M . Then the complex of differential forms on M relative to N

$$\Omega^\bullet(\iota_N)$$

from

Definition. Differential forms relative to a smooth map

Let $f : S \rightarrow M$ be a smooth map between smooth manifolds. Then $(\Omega^\bullet[f], d)$

$$\begin{aligned}\Omega^\bullet[f] &:= \bigoplus \Omega^k[f] \\ \Omega^k[f] &:= \Omega^k(M) \oplus \Omega^{k-1}(S) \\ d(\omega, \theta) &:= (d\omega, f^*\omega - d\theta)\end{aligned}$$

is the **cocomplex of differential forms relative to the map f** .

Current note has 0 direct children and 0 total descendants.

- structures based on sets
 - manifolds
 - smooth $\mathbb{R}$ -manifold
 - Tangents on a smooth manifold
 - Differential forms on smooth manifolds
 - Three different relative chain complexes of differential forms
 - Chain complex of differential forms relative to a submanifold

And it has 2 siblings.

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