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In the mathematical fields of differential geometry and tensor calculus, differential forms are an approach to multivariable calculus that is independent of coordinates. Differential forms provide a unified approach to define integrands over curves, surfaces, solids, and higher-dimensional manifolds.

Differential form - Wikipedia

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In mathematics, de Rham cohomology (after Georges de Rham) is a tool belonging both to algebraic topology and to differential topology, capable of expressing basic topological information about smooth manifolds in a form particularly adapted to computation and the concrete representation of cohomology classes. It is a cohomology theory based on the existence of differential forms with ...

De Rham cohomology - Wikipedia

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We extend the Chern character on K-theory, in its generalization to the Chern-Dold character on generalized cohomology theories, further to (twisted, differential) non-abelian cohomology theories, where its target is a non-abelian de Rham cohomology of twisted L-infinity algebra valued differential forms. The construction amounts to leveraging the fundamental theorem of dg-algebraic rational ...

[2009.11909] The character map in (twisted differential ...

Differential forms are an important component of the apparatus of differential geometry,. They are also systematically employed in topology, in the theory of differential equations, in mechanics, in the theory of complex manifolds, and in the theory of functions of several complex variables.

Differential form - Encyclopedia of Mathematics

By using the de Rham theory of

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General topology Local. Local A mathematical property holds locally if is true near every point. In many different areas of mathematics, this notion is very useful. For instance, the sphere, and more generally a manifold, is locally Euclidean. For every point on the sphere, there is a neighborhood which is the same as a piece of Euclidean space.

Local : Definition & Problems With Answers

The use of differential forms avoids the

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painful and for the beginner
unmotivated homological algebra in
algebraic topology. E.g., For example,
the wedge product of differential forms
allow immediate construction of cup
products without digression into acyclic
models, simplicial sets, or Eilenberg-
Zilber theorem.

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