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Nilmanifolds

Definition. Nilmanifolds

A **nilmanifold** is a smooth manifold M with a transitive smooth group action by a nilpotent Lie group N acting on it, that is,

$$M \cong_{\text{Man}} \frac{N}{H}$$

for a closed subgroup H of a nilpotent Lie group N .

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- [structures based on sets](#)
 - [manifolds](#)
 - [Homogeneous manifold](#)
 - [Nilmanifolds](#)

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- [structures based on sets](#)
 - [manifolds](#)
 - [Homogeneous manifold](#)
 - [Analytic geometries](#)
 - [Invariant Riemannian metrics on homogeneous manifolds](#)
 - [Klein geometry](#)
 - [Nilmanifolds](#)
 - [Reductive homogeneous spaces](#)
 - [Naturally reductive homogeneous spaces](#)
 - [Homogeneous manifold with compact stabilizer](#)
 - [Thurston geometries](#)