



Geometry Webinar AmSur/AmSul

Nilmanifolds: examples and counterexamples in geometry and topology

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Resumo: Nilmanifolds are a special type of differentiable compact manifolds defined as the quotient of a nilpotent, simply connected Lie group by a lattice. Since Thurston used them in 1976 to show an example of a compact complex symplectic manifold being non-Kähler, many other topological and geometrical questions have been answered using nilmanifolds. In this talk we will show some of these problems such as the holonomy of certain metric connections, deformations of structures or spectral sequences.