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Moduli spaces of stable bundles on complex nilmanifolds

A *nilmanifold* is the quotient $N = \Gamma \backslash G$ of a connected, simply connected nilpotent Lie group G by a discrete, co-compact subgroup $\Gamma \subset G$. If N is equipped with a complex structure I induced by a left-invariant complex structure on G , then (N, I) is called a *complex nilmanifold*. Other than complex tori, examples of complex nilmanifolds are given by Kodaira surfaces and Iwasawa manifolds, to name a few. In this talk, I will present some interesting examples of moduli spaces of stable bundles on complex nilmanifolds.