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Co-Higgs Bundles and Poisson Structures

A co-Higgs bundle on a complex manifold X is defined as a pair (V, Φ), where V represents a holomorphic vector bundle on X, and the co-Higgs field satisfies the integrability condition $\Phi \wedge \Phi = 0$. Co-Higgs bundles induce a Poisson structure on the projectivization $\mathbb{P}(V)$ of the vector bundle. In this talk, we are going to explore the connection between co-Higgs bundles and holomorphic Poisson structures.