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*Co-Higgs bundles on Hopf surfaces*

Co-Higgs bundles are a variant of Higgs bundles where the twisting bundle is chosen to be the holomorphic tangent bundle instead of the cotangent bundle. We will look at the classification of co-Higgs bundles on a particular family of complex surfaces and discuss how co-Higgs bundles on these surfaces lead to examples of compact holomorphic Poisson 3-folds. Based on joint work with Ruxandra Moraru.