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Moduli spaces of stable generalized holomorphic bundles on generalized Kähler manifolds

Generalized holomorphic bundles are the analogues of holomorphic vector bundles in the generalized geometry setting. For some generalized complex structures, these bundles correspond to co-Higgs bundles, flat bundles or Poisson modules. In this talk, I will discuss the deformation theory of stable generalized holomorphic bundles on generalized Kähler manifolds. I will also give explicit examples and explain how some of them are related to Poisson modules. This is work in progress with Shengda Hu.