SHENGDA HU, Wilfrid Laurier University
Degree of a generalized holomorphic bundle

We discuss a notion of degree for a generalized holomorphic vector bundle over a generalized Kahler manifold, using generalized connections that are analogues of Chern connections in the classical situation. The resulting degree fits well with the analogue of Hermitian-Yang-Mills equation, as proposed by Hitchin in 2011, in this context. Some general consequences of our constructions will be discussed as well.