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Moduli of coherent systems

Coherent systems are the analogous for higher classical linear systems. That is, a coherent system of type (n, d, k) is a pair (E, V) where E is a holomorphic bundle of rank n and degree d and V is a linear subspace of its space of holomorphic sections of dimension k. There is a stability notion for a pair (E, V), distinct from the stability of the bundle E. The natural definition of such stability depends on a real parameter α and leads to a finite family of moduli spaces of α-stable coherent systems. In this talk we will describe such moduli spaces for certain values of (n, d, k).