

Thomas Peternell: Non-algebraic hyperkähler manifolds

Abstract: I will discuss the algebraic dimension of a hyperkähler manifold of dimension $2n$. In dimension 4 only the values 0, 2 and 4 are possible. In general the algebraic dimension takes the values 0, n and $2n$ once certain very special Kähler manifolds have a minimal model. More will be said on nef line bundles on hyperkähler manifolds.