

Instanton bundles on \mathbb{P}^3 and their moduli spaces

Giorgio Ottaviani

Abstract: We recall the basics of the theory of instanton bundles on \mathbb{P}^3 and their mysterious moduli spaces $MI(k)$. We emphasize that all the constructions can be performed in the setting of multilinear algebra. Then we survey about some recent results concerning the geometric properties of $MI(k)$ and the natural action of $SL(4)$ on it.