

Kähler-Poisson Algebras

Ahmed Al-Shujary

We introduce the concept of Kähler-Poisson algebras as algebraic analogues of the algebra function on Kähler manifolds. We start by giving the definition and basic properties of Kähler-Poisson algebras. It is then shown that “the Kähler-Poisson condition” has consequences that allowed an identification of some geometric objects in the Poisson algebra which share several properties with their geometric counterparts. A few examples are provided in order to illustrate the novel concepts.