

## **The description of dendriform algebra structures on two-dimensional complex space**

### **ABSTRACT**

In this paper, we classify all dendriform algebra structures on two-dimensional complex space. We distinguish twelve isomorphism classes (one parametric family and eleven concrete) of two-dimensional complex dendriform algebras, and show that they exhaust all possible cases.

**Keyword:** Dendriform algebra; Isomorphism; Nilpotency