

Sergiy A. Plaksa (Kyiv, Ukraine)

Integral theorems for monogenic functions in an infinite-dimensional space with a commutative multiplication

We establish integral theorems for monogenic functions taking values in an infinite-dimensional commutative Banach algebra associated with spatial potential solenoid fields symmetric with respect to an axis. We establish also integral theorems for monogenic functions taking values in a topological vector space being an expansion of the mentioned algebra. We discuss some open problems.