

Composition operators between Bloch-type spaces on the homogeneous unit balls

Tatsuhiro Honda
Senshu University, Tokyo, Japan

Abstract

From the point of view of the Riemann mapping theorem, a homogeneous unit ball of a complex Banach space is a natural generalization of the open unit disc in \mathbb{C} . Every bounded symmetric domain in a complex Banach space is biholomorphically equivalent to a homogeneous unit ball. A complex Banach space X is a JB*-triple iff the open unit ball of X is homogeneous. Let \mathbb{B}_X be a bounded symmetric domain realized as the open unit ball \mathbb{B}_X of a finite dimensional JB*-triple X . In this talk, we discuss about the composition operator C_φ between Bloch-type spaces, where φ is a holomorphic mapping from \mathbb{B}_X into \mathbb{B}_Y .

This is a joint work with Hidetaka Hamada.