A SCHWARZ LEMMA FOR CORRESPONDENCES AND APPLICATIONS

Kaushal Verma

Abstract _____

A version of the Schwarz lemma for correspondences is studied. Two applications are obtained namely, the 'non-increasing' property of the Kobayashi metric under correspondences and a weak version of the Wong-Rosay theorem for convex, finite type domains admitting a 'non-compact' family of proper correspondences.

²⁰⁰⁰ Mathematics Subject Classification. Primary: 32B15; Secondary: 32A19, 32Q45.

Key words. Correspondences, normal families, Kobayashi metric.