
*Workshop dedicated to the memory of Professor Gabriela Kohr
(2nd edition)*

Geometric Function Theory in Several Complex Variables and Complex Banach Spaces

Cluj-Napoca, Romania

1–3 December 2022

Projection of connected Stein open subsets via surjective holomorphic maps

Cezar Joița

Simion Stoilow Institute of Mathematics of the Romanian Academy, Bucharest,
Romania

Abstract

Suppose that X and Y are connected reduced complex spaces and $f : X \rightarrow Y$ is an open surjective holomorphic map. We prove that for every connected open subset U of Y there exists a connected Stein open D subset of X such that $f(D) = U$. Joint work with Mihnea Coltoiu.