

planetmath.org

Math for the people, by the people.

Hartogs' theorem

Canonical name HartogsTheorem

Date of creation 2013-03-22 13:21:57

Last modified on 2013-03-22 13:21:57

Owner mathcam (2727)

Last modified by mathcam (2727)

Numerical id 10

Author mathcam (2727)

Entry type Theorem Classification msc 32H02

Synonym Hartogs' Phenomenon

Let $U \subset \mathbb{C}^n$ (n > 1) be an open set, and let K be a compact subset of U such that U - K is connected. Then any holomorphic function on U - K extends uniquely to a holomorphic function on U.