

SEMINARIO DE ANÁLISIS COMPLEJO

Always convex harmonic shears

Prof. Rodrigo Hernández

(Universidad Adolfo Ibáñez, Viña del Mar, Chile)

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Aula 520, Módulo 17, Departamento de Matemáticas
Universidad Autónoma de Madrid

Resumen:

We determine all analytic functions in the unit disk whose shear in a fixed direction produces an orientation-preserving harmonic mapping whose image is convex. We prove the perhaps unsurprising fact that these functions are precisely the extreme points of certain class of analytic functions.

Joint work with: M.J. Martín (Universidad de La Laguna/UAM, España) and J. Gröhn (UEF, Finlandia)