SEMINARIO DE ANÁLISIS Y APLICACIONES

Viernes, 8 de octubre de 2021

11:30 h., Módulo 17 - Aula 520 (Depto. Matemáticas UAM),

y además ONLINE - URL: https://us06web.zoom.us/j/89903037995

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Picard's theorem and the range of harmonic maps

Resumen:

Picard's (little) theorem is one of the most striking results of classical Complex Analysis. Since Picard's original proof, a great variety of approaches, generalizations and surprising links with other areas have contributed to enrich the scope of Geometric Function Theory.

Motivated by extensions of Picard's theorem to quasiregular mappings, J. Lewis obtained in 1994 the first purely real, harmonic proof of Picard's little theorem.

In the talk we will report several variations on Picard's theorem, with special emphasis on Lewis approach. In this direction, we will discuss a recent extension in terms of the range of harmonic maps in the plane.

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