



**UNIVERSITÀ
DEGLI STUDI DI BARI
ALDO MORO**

**DIPARTIMENTO
DI MATEMATICA**

Seminario di Analisi Matematica

Dislocation dynamics and chaotic orbits

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Dipartimento di Matematica

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Abstract

In this talk we revisit some recent results inspired by the Peierls-Nabarro model on edge dislocations for crystals which rely on the fractional Laplace representation of the corresponding equation. In particular, we discuss results related to heteroclinic, homoclinic and multibump patterns for the atom dislocation function.