



Dipartimento di Fisica
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HIGH ENERGY PHYSICS COLLOQUIA

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THE INTRIGUING RELATIONSHIP BETWEEN FRACTALS AND COHERENCE

Abstract

The self-similarity property of deterministic fractals are studied in the framework of the theory of entire analytical functions. The functional realization of fractals in terms of the q -deformed algebra of coherent states is obtained. This sheds some light on the dynamical formation of fractals and provides some insight into the geometrical properties of coherent states. The global nature of fractals appears to emerge from coherent local deformation processes.

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