

Mesoscopic States of Possibility Granular Scales of Mesosaurs in Nanofossils

We intends to Enhance Crude-oil by adopts nonlinearity of nanofossils in perhaps-containing mesosaur and the granular-size's length-scale involves mesoscopic

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Multifractality to Photonic Crystal & Self-organization to Metamaterials through Anderson localizations & Group/gauge theory

*Fatahillah Hidajatullah-
WIDASTRA*

investigate by creating the theory of permutation group[F:\Group_theory.htm] where in cell elements addressing of the lattice Qmf used s Cayley tree, the self-affine object Qmf is described by the combination of the finite groups of rotation & inversion & the infinite groups of translation & dilation[G Corso & LS Lacena:"Multifractal lattice & Group theory", Physica A:Statistical Mechanics & its Applications, 2005, vol 357,issue 1, 64] hence multifractal can be related to group theory.

Criticality at the Anderson localization transition has been the subject of one is the remarkable aspect of multifractality. This

observation is based on the excitation of elastic waves in an open 3D disordered medium with results, showing a very clear difference between localizing & diffusive regimes, not only highlight the presence of multifractality in wave function[Sanli Faez,et.al:"Observation of multifractality i Anderson localization of ultrasound",Phys.Rev.Lett, 103 9 October 2009].

Quantum optics & quantum information technology require enhancement of light-matter interaction where multiple scattering of light in disordered photonic structures, as originally proposed by P. W. Anderson. The mechanism responsible is wave interference & occurs also for microwaves, acoustic waves & even Bose-Einstein condensated matter waves. A promising proposal on how to control multiple scattering is to introduce disorder in photonic crystal[PD Garcia,et.al:"Controlling Anderson localization in disordered photonic crystal waveguides" 12 Mar 2010.

Comparing 'localized modes' of photonic crystal from Kazuaki Sakoda[Institute for Material Science,Japan] various properties of 'interface modes' in a heterostructure consisting of a semi-infinite metallic layer & a semi-infinite Fibonacci quasi-periodic structure, such as their spatial localizations, self-similarities & multifractal properties are studied[Xiao-Ning Pang,et.al:"Photonic Localization Interface Modes at the Boundary between Metal 7 Fibonacci Quasi-periodic Structure", manuscript] & fabrication & the EM characterization of anisotropic eutectic metamaterials consisting LiF rods performed using the eutectic directional solidification self-organization approach[A Reyes-Coronado,et.al:"Self-organization approach for THz polaritonic metamaterials",manuscript, Optical Society of America,2012] whereas :".mai properties of fractal-based system are self-similarity, self-organization, goal-orientation, dynamics..."- Erika Asnina & Janis Osis:"Analysis of Multifractal SystemvProperties ib Object-oriented Software Development", Applied Computer Systems, 2008- 34] mentions instead of it deals with fractal dimensions & neo-classical economics" discovered [Eric Weinstein.net:"Neo-classical Economics & Gauge theory" is built around a naturally occurring(infinite dimensional) Principal bundle and a naturally occurring(finite dimensional) vector bundle

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