

Statistical Analysis of Diffusion over Fractal Sets

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The work focusses on a statistical analysis of fractal diffusion and the estimation of fractal dimensions. We begin by introducing diffusion over fractal sets as subdiffusive anomalous diffusion characterised by statistical moments and return probability. We present butterfly diffusion and the constrained convolution schema, innovative approaches for analysis and numerical modelling. The results discussed offer significant insights for both theoretical research and practical use.

Hlavní autor: GAŠPAR, František

Přednášející: GAŠPAR, František

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