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(Submitted on 6 Apr 2012)

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Longitudinal and transverse velocity scaling

K. P. Zybin, V. A. Sirota (P.N.Lebedev Physical Institute of RAS, Moscow, Russia)

We suggest a simple explanation of the difference between transverse and longitudinal scaling

Multifractal conjecture, we calculate both scaling exponents for any n without any fitting parameters

exponents observed in experiments and simulations. Based on the Vortex filament model and

and ESS anzatz. The results are in very good agreement with the data of simulations.

exponents from merging of the Vortex

filament and Multifractal models

Submission history

From: Valeria Sirota A [view email] [v1] Fri, 6 Apr 2012 12:20:27 GMT (19kb)

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