

ANOMALOUS TRANSPORT IN VELOCITY SPACE:
EQUATION AND MODELS

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S u m m a r y

The problem of anomalous diffusion in the momentum space is considered on the basis of the appropriate probability transition function (PTF). A new general equation for the description of the diffusion of heavy particles in a gas of light particles is formulated on the basis of the new approach similar to one in the coordinate space [1]. The obtained results allow one to describe the various situations where the probability transition function has a long tail in the momentum space. The effective friction and diffusion coefficients are determined.