

Channeling 2018



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The Mechanism of Induced-Dispersive Channeling of Neutral Atoms and Molecules in Zeolite Channels, Natural Asbestos Fibers and Structured Cylindrical Superlattices

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Controlled long-distance transportation of neutral particle beams is one of the most interesting problems of atomic physics. Some features of the interaction of moving neutral atoms, molecules and clusters with a superlattice field (e.g., crystal lattice and system of magnetic or electric domains) were considered in [1]. In our new paper we consider the possibility of using the induction-dispersion method of interaction of particles for the realization of long distance channeling in natural channels of zeolites, asbestos fibers and similar cylindrical structured nanotubes.

1. V. I. Vysotskii, M. V. Vysotskyy, N. V. Maksyuta. Journal of Surface Investigation, 2010, V.4, No.4, 696

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