

Channeling 2018



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Simulations of Beam Channeling in a Spherically Bent Crystal

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In the report the next model is considered. The spherically bent crystal is the crystalline plate that has surfaces bent spherically, i.e surfaces represented by a fragment of sphere. Beam of charged particles enters (and then exits) the crystal through spherically bent surface. The planar channeling in the crystal was simulated for the case when planes providing the channeling are orthogonal to enter (and exit) surfaces. The re-distribution of beam flux behind the crystal was modeled. The possibility of the scheme advantage for beam focusing is investigated. The same task for the axial channeling was considered.

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