GENERALIZED KILDAL – BODNAR'S DISPERSION LAW FOR $4mm$ (C_{4v}) ORDERED CRYSTALS

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The exact and generalized Kildal – Bodnar's dispersion law is obtained. The crystal potential and spin-orbit interaction are completely accounted for the first time. The Fermi-surface is found as the rotation surface of some curve of the second order around the own chord. This chord coincides with the main crystal axis by direction. The existence of an 'extremes loop" is proved. It exists in the reciprocal space as a circle with origin located center. The points of this loop may be the totalities of minimums, maximums, or minimaxes (saddle points) of the energy band. Ordered $A_3^2B_2^5$ crystals are considered as an example.