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## PS3-17 Band Structure of Transverse Energy Levels of Relativistic Planar Channeled $e^-$ and $e^+$

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It is shown that the band structure which calculated by the proposed method, agrees with the results obtained by the standard method - by the transformation of the Schrödinger equation with relativistic mass into an algebraic equation using the Fourier series [2-3]. Comparison carried out both for a periodic Pöschl-Teller potential and for the "real" average periodic potential of (220) planes of the Si crystal.

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