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Coherent Bremsstrahlung from Axially Channeled Electrons

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The solution of the Dirac equation for the electron (positron) in a continuous potential of the crystal axis taking into account the periodicity of the crystal in the direction of the axis was found in [1].

In a present report using those wave functions, we theoretical study the coherent bremsstrahlung from axially channeled electrons. Calculation shows that channeling of created particles result in a splitting of the coherent peak and changes its positions.

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