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Coherent X-radiation Generated in Periodic Layered Medium along the Relativistic Electron Velocity

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A dynamic theory of coherent radiation generated along the velocity of the relativistic electron crossing a layered periodic medium in Bragg geometry is constructed for general case of asymmetric reflection. The group velocities of the X-ray waves relating to different branches of dispersion equation solution are investigated and it is shown that the contributions of these waves in the total radiation depend on reflection asymmetry.

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