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Dechanneling Studies for Moderate Energy Electrons in Si Crystals

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In this report we have presented the results of our study on the problem of dechanneling for the SPARC electron beam energies. Dechanneling processes for electrons in (111), (110), (100) Si crystals based on the solution of Fokker-Planck equation have been studied. The influence of beam redistribution due to the processes of electron both dechanneling and rechanneling on spectral intensity of channeling radiation for electrons in a crystal is investigated.

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