

On the singular behaviour of spectral density for Schrodinger operators with Wigner-non-Neumann perturbation

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The analysis of the spectral density behaviour near singular points of the absolutely continuous spectrum of the Schrodinger operators with a periodic potential perturbed by a Wigner-non-Neumann type potential to be presented. It is based on the asymptotic methods and discrete linear system theory. The location of the singular points is subordinated by a sort of Bohr-Sommerfeld quantization condition. The talk is based on the common work with S. Simonov.