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Some Asymptotic Estimates for the Instability Intervals of Hill's Equation



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Abstract: In this study, some asymptotic estimates for the length of the instability intervals of Hill's equation, $y''(t) + (q(t) - q(t))y(t) = 0$, are derived by means of an auxiliary eigenvalue problem under various assumptions on the Fourier coefficients of the potential q .



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