A NEW OSCILLATORY CRITERION FOR
THE GENERALIZED HILL’S EQUATION

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Abstract. In this note we use an oscillatory theorem for the second order linear ordinary differential equation in order to establish an oscillatory criterion for the generalized Hill’s equation. We formulate a hypothesis about representation of the sum of periodic functions with rational dependent periods by a sum of periodic functions with rational independent periods.


Keywords and phrases: oscillation, generalized Hill’s equation, periodic functions, rational independence of periods, generalized Mathieu equation.

REFERENCES