A LIAPUNOV INEQUALITY FOR LINEAR HAMILTONIAN SYSTEMS

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Abstract. A Liapunov type inequality is proved for a linear Hamiltonian system. This inequality allows estimates of intervals of disconjugacy. The inequality is particularly applicable to equations with oscillatory coefficients. A new criterion of stability is given for a differential equation with periodic coefficients.

Key words and phrases: Liapunov inequality, disconjugacy, Hamiltonian system.

REFERENCES