

See page 68, 69 and Ex 12.30

For stability we want L matrix to have
Complex e. values. ($\det L = 1$)

This means char. eqⁿ

$$\lambda^2 - (\text{trace } L) \lambda + 1 = 0$$

has complex roots. This will be the case

when $(\text{trace } L)^2 < 4$

$$\text{ie } |(\text{trace } L)| < 2$$

\approx