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Conjecture (CT 1985):

Every 4-connected line graph is hamiltonian.

Conjecture (Matthews Summer 1984):

Every 4-connected claw free graph is hamiltonian.

Conjecture (Saito 2000):

Every 3-connected line graph of diameter 3 is hamiltonian unless its preimage is obtained from the Petersen graph by adding at least one pendant edge to each vertex.