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## Birkhoff stability and Nekhoroshev stability of elliptic equilibrium positions in Hamiltonian systems

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We present a survey of stability results for elliptic equilibrium positions in Hamiltonian systems under generic assumptions.

References:

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Niedermaier, L., Generic super-exponential stability of elliptic equilibrium positions for symplectic vector fields, *Regul. Chaotic Dyn.* 18 (2013), no. 6, 719–731.

Bounemoura, A., Fayad, B., Niedermaier, L., Nekhoroshev estimates for steep real-analytic elliptic equilibrium points, to appear in *Nonlinearity*, preprint HAL <https://hal.archives-ouvertes.fr/hal-02074689>

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