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## Stochastic modeling of weakly chaotic systems

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Integrable systems become chaotic as soon as one perturbs them with an external, additive random noise. The Lyapunov exponents are a power law of the noise intensity. The regime being by nature beyond the Kolmogorov Arnold Moser (and also the Nekhoroshev) regimes, it offers us a glimpse of the behavior of weakly chaotic deterministic systems, in an multi-resonance situation.

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