

STANDARD MAP

The standard or Taylor–Chirikov map is a family of area-preserving maps, $z' = f(z)$



STANDARD MAP

Dynamics

When $k=0$, the dynamics of the standard map are integrable: the momentum y is an invariant. On each invariant circle $\mathcal{C}^0 = \{(x, y) : y = \text{const}\}$, the angle after t iterates is given by $x_t = x_0 + t \text{ mod } 1$, thus the dynamics that of the constant rotation, $R(\text{const}) =$

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