

## STANDARD MAP

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



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### 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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## Manuscript Queries

**Title: Encyclopedia of Non-linear Sciences**  
**Alphabet S: Standard map**

Page	Query Number	Query
3	1	Please chek for Figure 1:kcirt