

1. Linear dynamical systems

Linear

Let:

- (\mathbb{R}^n, f) euclidean functional dynamical system

Then, (\mathbb{R}^n, f) is linear if:

- $\exists A \in \mathcal{M}_{n \times n}(\mathbb{R})$:

- $\forall x \in \mathbb{R}^n$:

- $f(x) = Ax$