

$$\gamma: I \rightarrow \mathbb{R}^m$$

$$f \in \text{Iso}(\mathbb{R}^m)$$

$$\tilde{\gamma} = f \circ \gamma$$

$$\tilde{\gamma}'(t) = df(\gamma(t)) \cdot \gamma'(t)$$



$$= A \gamma'(t)$$

$$f = T_v \circ L_A$$

$$f(p) = (Ap + v)$$

$$df(p)w = Aw$$

$$|\tilde{\gamma}'(t)| = |A \gamma'(t)| = |\gamma'(t)|$$

$$\in \mathcal{O}(n)$$

$$\tilde{\gamma}'(t) = A \gamma'(t)$$

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