

$$D(t, x, \lambda) := \lambda \cdot x + \frac{1}{1+t^2} - \lambda \cdot \operatorname{arctg}(t)$$

$$Eps := 10^{-8}$$

$$\operatorname{appVersion}(4) = "0.99.6884.37264"$$

$$t_0 := \operatorname{time}(0) \quad x_0 := 0 \quad t_{min} := 0 \quad t_{max} := 10 \quad N := 100 \quad \lambda := -100$$

$$res := \operatorname{al_rkckadapt}(x_0, t_{min}, t_{max}, N-1, D)$$

$$\operatorname{time}(0) - t_0 = 224 \text{ MC}$$

$$t := \operatorname{col}(res, 1) \quad err := \operatorname{augment}\left(t, \operatorname{col}(res, 2) - \overrightarrow{\operatorname{arctg}(t)}\right)$$

