Error on the actractive equilibria on the s-axis  $10^{-1}$  $10^{-2}$  $10^{-3}$ 10-5 Discrete Map Fixed Point 10-6 Second order approximation Forth order approximation Sixth order approximation  $10^{-7}$ Long time numerical 0.04  $0.\overline{00}$ 0.02 0.06 0.08 0.10 dt