

# (Strong) sensitive dependence on initial conditions of Mahavier dynamical systems

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We give results about a stronger version of the sensitive dependence on initial condition property of so-called Mahavier dynamical system  $(X_F^+, \sigma_F^+)$ , where  $X_F^+$  is the Mahavier product of a closed relation  $F$  on a non-empty compact metric space and  $\sigma_F^+$  is the shift map on  $X_F^+$ . We present various properties of a closed relation  $F$  that imply sensitive dependence on initial conditions or its stronger version.

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