

## ***Interactive comment on “Linear and Non-linear Stability Analysis of the Rate and State Friction Model with Three State Variables” by N. Sinha and A. K. Singh***

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We have provided the rebuttal to the reviewer's in the supplement.

Please also note the supplement to this comment:

<http://www.nonlin-processes-geophys-discuss.net/npg-2016-11/npg-2016-11-AC1-supplement.pdf>

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Interactive comment on Nonlin. Processes Geophys. Discuss., doi:10.5194/npg-2016-11, 2016.

C1

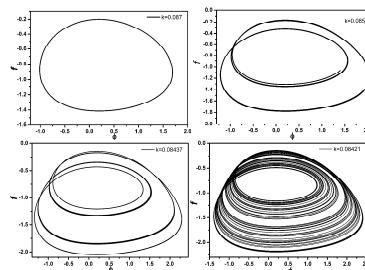


Fig.3-6: Phase diagram  $f$  vs.  $\phi$  for  $k = 0.087$ ,  $k = 0.085$ ,  $k = 0.08437$  and  $k = 0.08421$ .  $\beta_1 = 1.0$ ,  $\beta_2 = 0.84$ ,  $\beta_3 = 0.38$ ,  $\rho = 0.048$  and  $\rho_1 = 0.034$  for initial condition  $[0,0,0,0]$ .

**Fig. 1.**

C2