

# ***Interactive comment on “Hierarchical scale dependence associated with the extension of the nonlinear feedback loop in a seven-dimensional Lorenz model” by Bo-Wen Shen***

**Anonymous Referee #1**

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This is a nice study. By extending the Lorenz systems to seven-dimension versions that include the different-scale modes, author analyzed the impacts of newly resolved small processes and the additional nonlinear terms on the stability of nonlinear Lorenz system in details. He emphasized the negative nonlinear feedback of small-scale temperature perturbation to stabilize solution. Manuscript is well organized and statements are clear and precise. This is an interesting and useful contribution to NPG and my recommendation is to accept.

Pg.19, Line 555: is ->are

Interactive comment on Nonlin. Processes Geophys. Discuss., doi:10.5194/npg-2016-10,

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