

# ***Interactive comment on “A Statistical Mechanical Approach for the Parametrization of the Coupling in a Fast-Slow System” by Gabriele Vissio and Valerio Lucarini***

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We wish to thank the reviewer for the positive review of our paper and for his/her useful comments.

1-2) We applied the modifications requested.

3) We defined  $R(t)$  above the corresponding equation.

4) The sentence has been modified accordingly.

5) We added to all the captions the value of  $\tau$ , pointing out the case of fast/slow Lorenz 63. We think that further additions would be redundant, since all the other model

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parameters used throughout the paper remain unchanged.

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