

Response to the reviewer's comments

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We are pleased the reviewer found the approach promising, and have addressed the requested clarifications.

Remarks

1. Added a short paragraph to the Introduction to clarify that in general $U_j(0) \neq u(X_j, 0)$.
2. Clarified that ν and α are constant.
3. Detailed the requisite hypotheses of Haragus & Iooss, with minor changes in symbols to suit, and rephrased the theorem and proof accordingly. This also clarifies the smoothness conditions on F and G .
4. §4.2 clarifies that we used `ode15s` from Matlab.

Minor remarks

5. As Reviewer spotted, corrected (26).
6. Clarified that (5)–(6) are on a periodic domain and j is N -periodic.