Response to the reviewer's comments

Geoff Jarrad and A.J. Roberts

May 4, 2018

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

1. As Reviewer spotted, corrected (26).

2. Clarified that (5)–(6) are on a periodic domain and j is N-periodic.