

Figure 9: The projection of the chaotic solution of the drive GDS system (2.19) on the U-j plane.

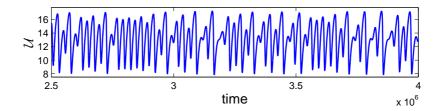


Figure 10: The chaotic behavior of the \mathcal{U} coordinate of system (2.19).

References

- [1] M. U. Akhmet and M. O. Fen, "Entrainment by chaos," Journal of Nonlinear Science **24**, 411-439 (2014).
- [2] H. D. I. Abarbanel, N. F. Rulkov, and M. M. Sushchik, "Generalized synchronization of chaos: The auxiliary system approach," Phys. Rev. E 53, 4528-4535 (1996).
- [3] D. D. Šijačić, U. Ebert, and I. Rafatov, "Period doubling cascade in glow discharges: Local versus global differential conductivity," Phys. Rev. E 70, 056220 (2004).
- [4] N. F. Rulkov, M. M. Sushchik, L. S. Tsimring, and H. D. I. Abarbanel, "Generalized synchronization of chaos in directionally coupled chaotic systems," Phys. Rev. E 51, 980-994 (1995).
- [5] L. Kocarev and U. Parlitz, "Generalized synchronization, predictability, and equivalence of unidirectionally coupled dynamical systems," Phys. Rev. Lett. 76, 1816-1819 (1996).
- [6] B. R. Hunt, E. Ott, and J. A. Yorke, "Differentiable generalized synchronization of chaos," Phys. Rev. E 55, 4029-4034 (1997).
- [7] U. S. Freitas, E. E. N. Macau, and C. Grebogi, "Using geometric control and chaotic synchronization to estimate an unknown model parameter," Phys. Rev. E 71, 047203 (2005).