

# Chaos in delay differential equations with applications in population dynamics

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In this talk we develop a geometrical method to detect the presence of chaotic dynamics in infinite dimensional spaces. Our method enables us to give explicit conditions in our models without using small/large parameters or hiperbolicity conditions. An application to the classical Lotka-Volterra model with delay is given.

The results are contained in [1].

## References

- [1] A. Ruiz-Herrera, *Chaos in delay differential equations with applications in population dynamics*, to appear in DCDS series A.