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**Mathematical and stability analysis of fractional order model for spread of pests in tea plants.** (English) [Zbl 07465341](#)  
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**MSC:**

- 34C60 Qualitative investigation and simulation of ordinary differential equation models
- 34A08 Fractional ordinary differential equations
- 92D45 Pest management
- 34C05 Topological structure of integral curves, singular points, limit cycles of ordinary differential equations
- 34D20 Stability of solutions to ordinary differential equations
- 34D05 Asymptotic properties of solutions to ordinary differential equations

**Keywords:**

numerical method; fractional order; stability analysis; natural enemy; generalized Euler method; GL coefficients

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