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**PRACTICAL ERROR ANALYSIS OF NUMERICAL SOLUTIONS
TO THE HUXLEY'S EQUATION**

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In this talk, I like to discuss, how long time error estimates are obtained using non-traditional methods for the Huxley's equation

$$u_t - u_{xx} = u(1 - u)(u - a) \quad \text{for } 0 < a < 1/2.$$

Traditional methods for analyzing exact error propagation depends on the stability of the numerical method employed. Whereas, in this talk the analysis of the exact error propagation uses evolving attractors and only depends on the stability of the dynamical system. The use of the smoothing indicator yields *a posteriori* estimates on the numerical error instead of *a priori* estimates.

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