

WORKSHOP
Mathematical Neuroscience
September 16 – 19, 2007

Waves and synchrony in the Pinto-Ermentrout system

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Abstract

We study the formation of traveling waves in the Pinto-Ermentrout model of an excitable neuronal field. There is a positive parameter β that appears in the model. For small β we show how multi-pulse waves, periodic waves and rotating occur. For larger β a synchrony phenomenon takes place. All results will be illustrated with videos.