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Honghui Zhang* (haozhucy@nwpu.edu.cn), New Bedford, MA 02740. *Seizure dynamics of coupled-oscillator studied by Epileptor field model.*

The focus of our study is to investigate the mechanisms of seizure recruitment and propagation through a neural field model called Epileptor, which is coupled via signaling through slow permittivity variables. We also investigate the influence of electro-tonic couplings and chemical synaptic coupling in the generation, propagation and termination of spontaneous seizure-like events. Our analysis provide a set of indices conditions that seizures propagate to nonepileptogenic brain regions. These results are hoped to give some useful tips on clinical therapy of partial epilepsies. (Received August 18, 2017)