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Regular Bursting Emerging from Synaptically Coupled Elliptic Bursters. Preliminary report.

In this note, we study the change of collective behavior of two synaptically coupled elliptic bursters as the level of noise increases. The two cells are desynchronized when coupled but as the coupled strength and the noise level increase past a certain value, the behavior of two cells becomes synchronized with regular bursting motions. (Received September 14, 2008)