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Vahagn Manukian* (manukive@miamioh.edu), 1601 University Blvd, Hamilton, OH 45011. *The Gray-Scott Model: Bistable Regime.*

Using singularly perturbed nature of the Gray-Scott model, we apply multi-scale analysis in a systematic way to show the existence and stability of a traveling front and a traveling pulse. While the traveling front is stable, the pulse is unstable. (Received January 12, 2017)