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Pengcheng Xiao*, 1800 Lincoln Ave, Evansville, IN 47722. *Postpartum Depression Modeling Analysis*. Preliminary report.

Postpartum depression has been extensively studied in the past decades. The question whether a theoretical framework exists for postpartum depression is still unclear. In this talk, we propose a postpartum depression model based on hypothalamus-pituitary-adrenal (HPA) axis. We will discuss the dynamics of this model, theoretical and numerical results will be presented. (Received July 18, 2017)