

Appendix S4 for “Stochastic Amplification of Fluctuations in Cortical Up-states”

Jorge Hidalgo, Luís F. Seoane, Jesús M. Cortés and Miguel A. Muñoz

Departamento de Electromagnetismo y Física de la Materia and Instituto de Física Teórica y Computacional Carlos I. Facultad de Ciencias, Universidad de Granada, E-18071 Granada, Spain

Power spectrum of fluctuations for the synaptic depression variable

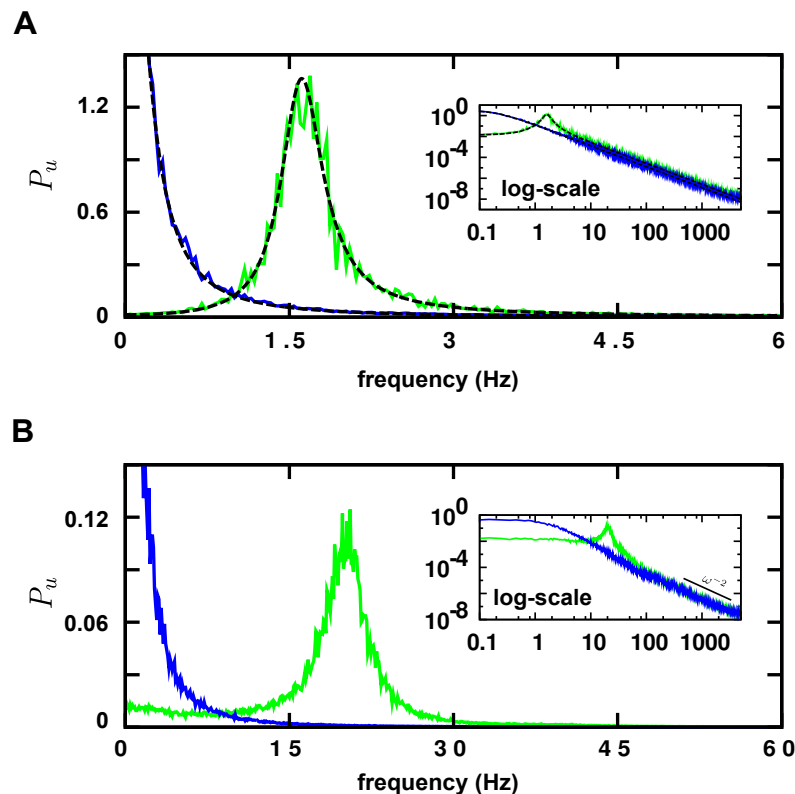


Figure S4. Power spectrum for the variable synaptic depression variable, u , in Up and in Down states for (A) Model A and (B) Model B, respectively. Plots are normalized to unit area. As in Fig. 2 of main text, similar peaks appear for Up (green curves) but not for Down (blue curves): (A) ≈ 1.6 Hz and (B) ≈ 20 Hz. Insets present power spectra in double logarithmic scale; spectra exhibit a ω^{-2} tail indicating the presence of many different scales.