One Cortical Column Model --- Inhibitory Population Wakefulness **NREM NREM** Wakefulness 6.1 6.1 Occurrence % LFP (mV) 50 50 4.1 4.1 0 Down Up -50 -50 2.0 2.0 -2.5 -2.5 Firing Rate (Hz) 60 0.0 0.0 60 20 20 40 60 40 60 40 40 Firing Rate (Hz) Firing Rate (Hz) 20 20 12.0 12.0 -2.5 -2.5 Occurrence % 8.0 8.0 V_i (mV) Down Up -60 -604.0 4.0 -80 -80 0.0 0.0 -2.5 -2.5 -5 -5 -100 -50 -100-50 V_i (mV) Time (s) Time (s) V_i (mV) В **NREM** Wakefulness 0.19 NREM 3.2 0.8 0.8 Occurrence % LFP Log Power % occurrence 0.13 0.6 0.6 1.6 0.4 0.4 0.0 0.06 0.2 0.2 -1.60.0 0.00 0.0 -100 0 -100 0 50 -2.5 -1.9 -1.3100 100 100 LFP (mV) High-/low-frequency LFP (mV) Frequency (Hz) power ratio (log scale)