Supplemental Material S3 Fig: Balanced STDP in isolated pairs of neurons



Figure 1. Both types of balanced STDP lead to splitting of synaptic weights. We take an isolated pair of neurons with the same intrinsic and synaptic parameters as in the full network. The neurons are reciprocally connected and we plot the (A) The depression-dominated balanced STDP rule. (B) The potentiation-dominated balanced STDP rule. Both are exactly the same as in the main paper. We show the dynamics of the weights in a pair of neurons isolated from the network. In both cases, the reciprocal loop is eliminated and initial conditions determine which synaptic weight is potentiated and which depressed.