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| **Figure 1.** Simulation for depression short-term plasticity with step-changing long-term plasticity. **A.** long-term plasticity **B.** Overall cross-correlogram **C.** cross-correlogram before and after step change in LTP. **D.** synaptic efficacy before and after step change in LTP. **E.** cross-correlogram split by quartiles of ISI, before and after step change in LTP. |

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| **Figure 2 (version 2)** Simulation and model fitting results when holding baseline firing rate be constant.  **A.** LTP and modification function for facilitation, depression and non-plasticity STP. The LTP were held as step-chaning. **B.** cross-correlogram split by quartiles of ISI, to show STP. **C.** LTP and modification function, when holding STP be depression and let LTP change linearly and sinusoidally. **D.** cross-correlogram split by quartiles of T, to show T. |

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| **Figure 3.** Simulation and model fitting results when baseline firing rate changes. The LTP were changed in step and sinusoidally. The STP were fixed as depression. **A**. pre- (blue) and post- (black for simulation, red for fitting) synaptic firing rate. **B**. Long-term plasticity **C.** Modification function. |