



Figure S1: Information rate as a function of the encoding window. **a.** The information rate between stimulus and a representative H1 response as a function of the encoding window, for timing and count encoding modes. L_r^* is the encoding window where the information rate in the timing mode is maximal. **b.** Respective coding efficiencies. **c.** Information rates (timing mode) between the discretized velocity and the response, calculated at the optimal encoding window. Response latency τ^* was defined as the lag that maximizes the information rate.