



Online Resource 2 a) Discrimination performance as a function of the temporal resolution parameter τ for a sample of neurons from the three processing stages in the metathoracic ganglion. b) The values of optimal τ for ascending (AN, Median = 8 ms), local (LN, Median = 3ms) and receptor cells (REC, Median = 5ms). There was a significant difference across computation levels ($P < 0.0001$; Kruskal-Wallis-test). REC-LN: $p = 0.167$; REC-AN: $p = 0.0004$; LN-AN: $p < 0.0001$; Mann-Whitney-U-test).

article title: Neuronal Precision and the Limits for Acoustic Signal Recognition in a Small Neuronal Network

journal name: J Comp Physiol A

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