80 word summary

Title: How asymmetries in the feedforward signals are exploited by target neurons to elaborate feature selectivity

Summary: Neurons in the visual system are selective to certain stimulus properties like the orientation of a stimulus. Many theories have been proposed to explain these feature selctivities. Here we examine the orientation selectivity, spatial frequency tuning and linearity of spatial summation of neuronal responses in the geniculo-striate pathway and the superior colliculus. We explore evidence which suggests that these selectivities originate from mild biases established early on in the visual pathway; sometimes, as early as the retina.