

Drosophila larva locomotion

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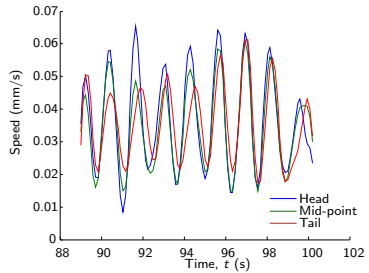
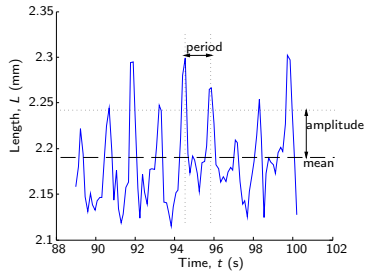
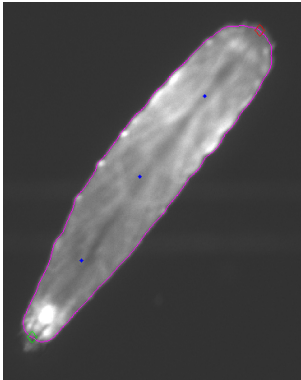
April 5, 2010

Larva with GFP in muscles

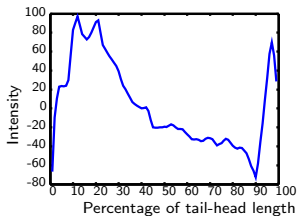
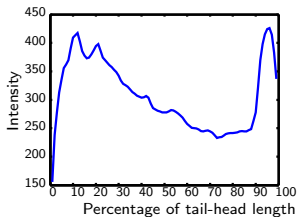
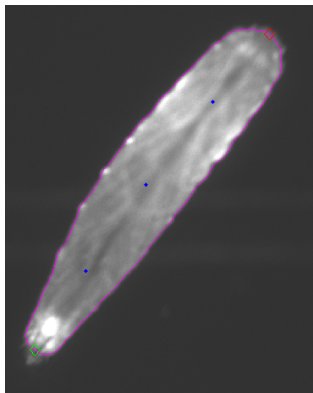
$$W^{-}; \frac{mhc-GFP^{0110}}{cyo}$$

Muscles contract \rightarrow same GFP in smaller volume \rightarrow increase concentration \rightarrow increase brightness.

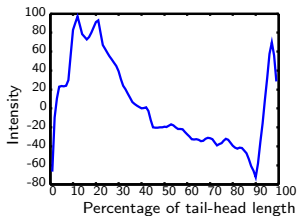
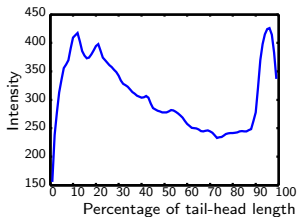
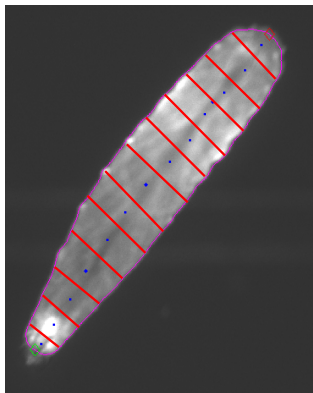
From outline



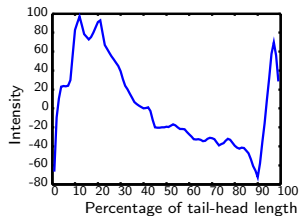
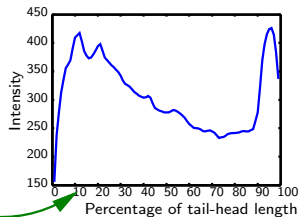
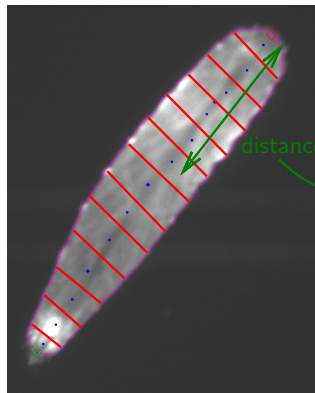
Intensity profile



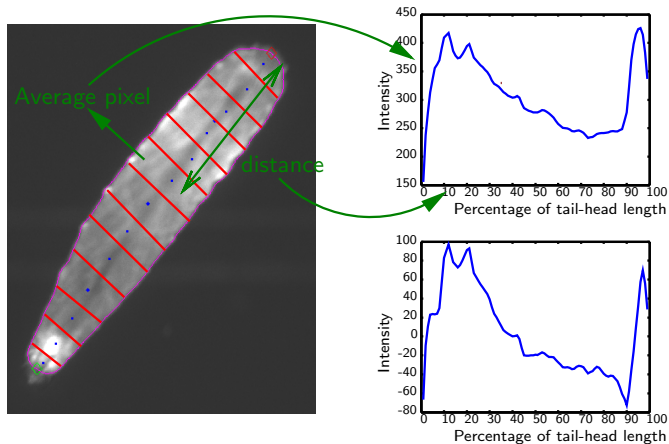
Intensity profile



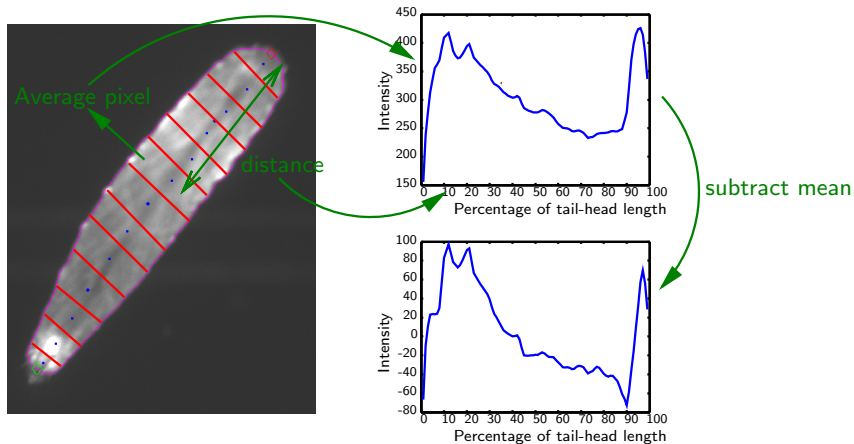
Intensity profile



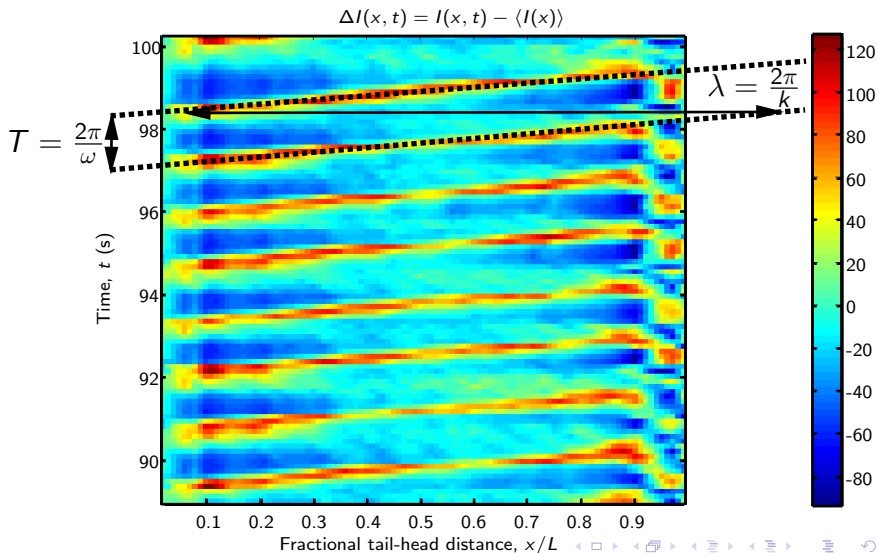
Intensity profile



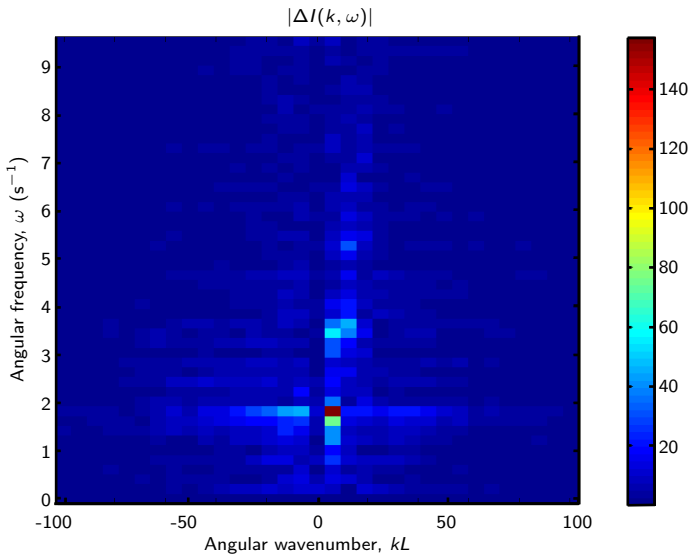
Intensity profile



Period and wavelength from intensity profile



Fourier transform



Width of pulse (preliminary)

