

# Quantifying dynamical properties from intensity correlations of microscopy data

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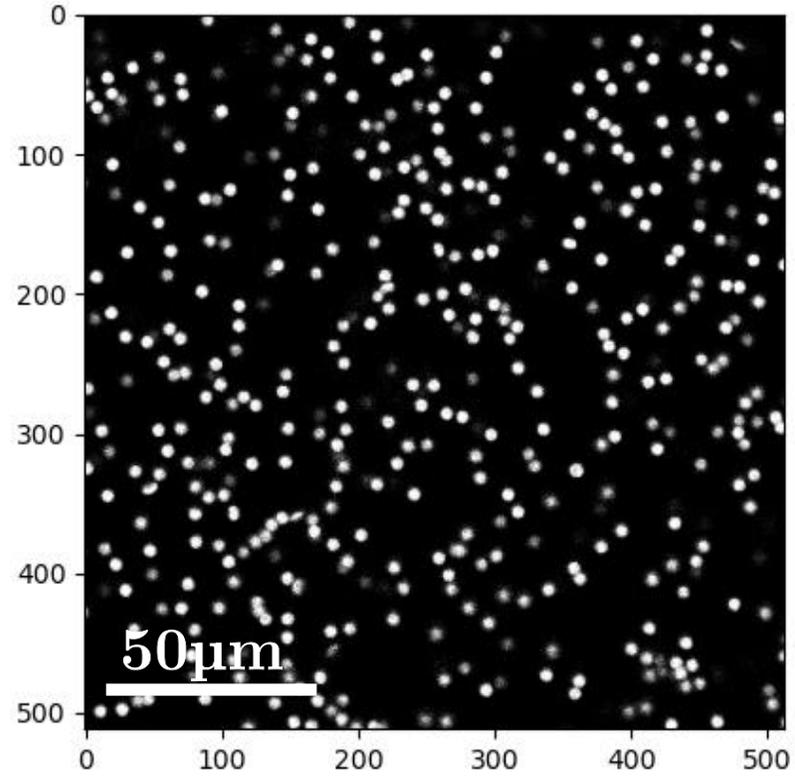


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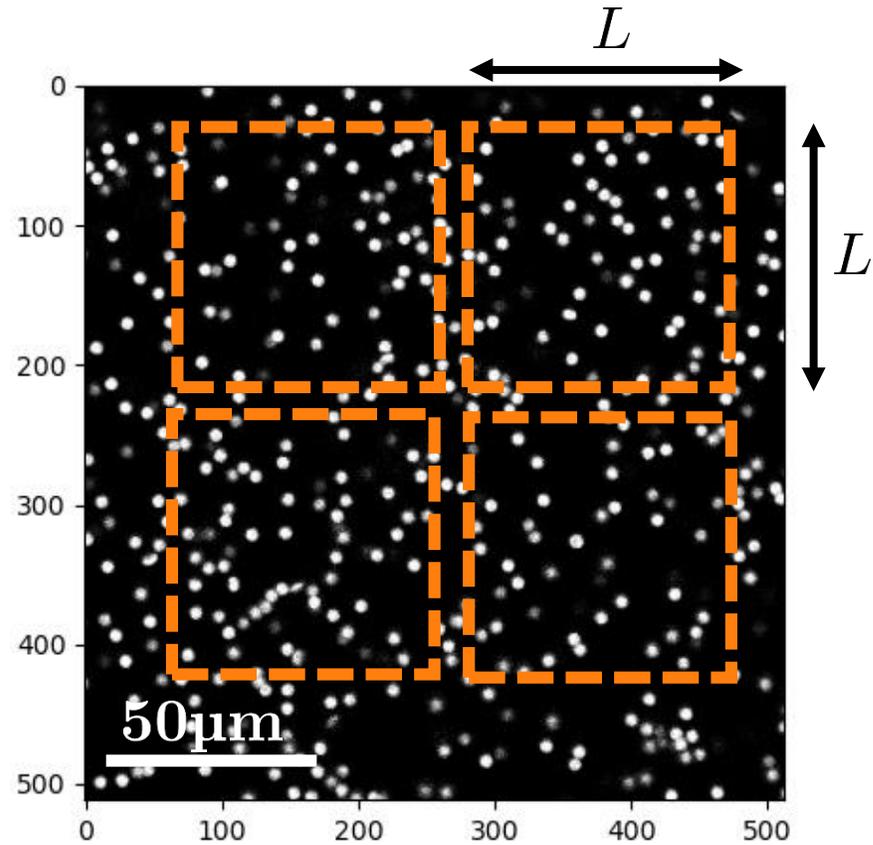
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# Intensity countscope



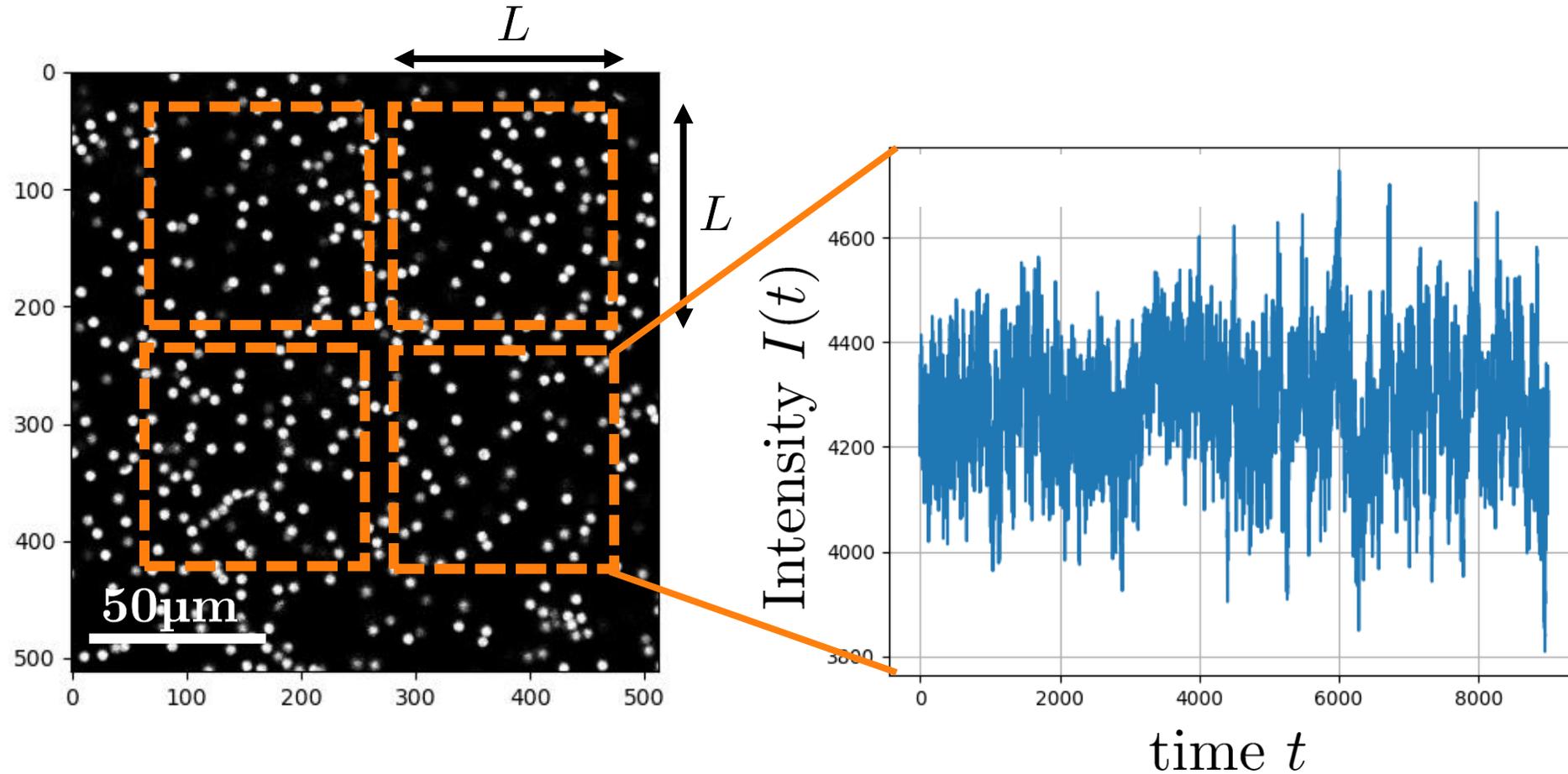
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# Intensity countscope



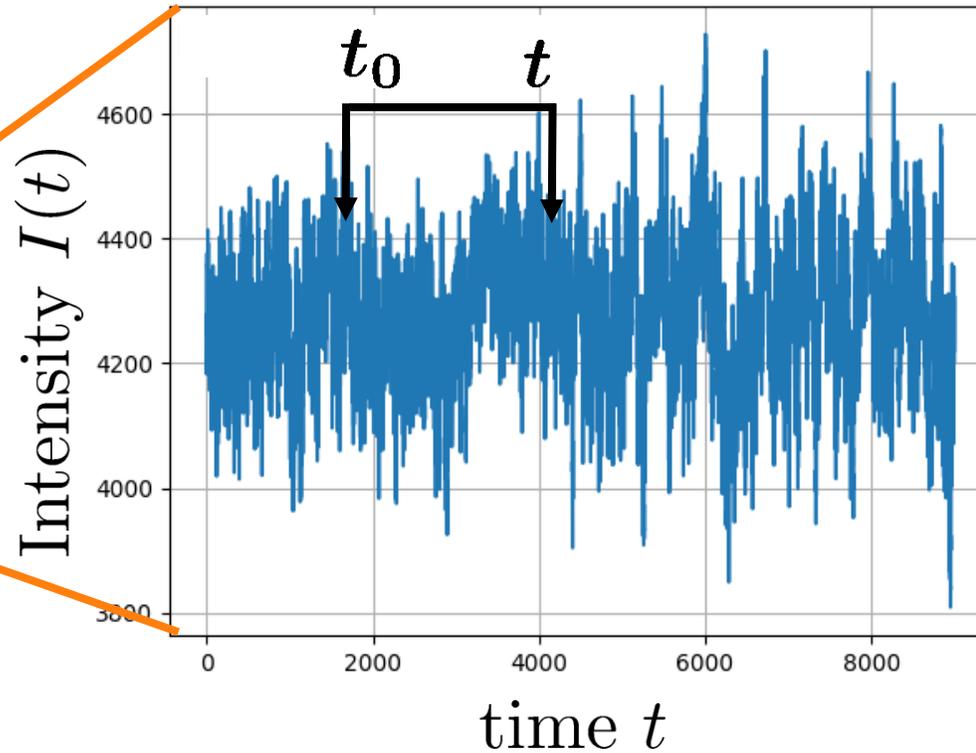
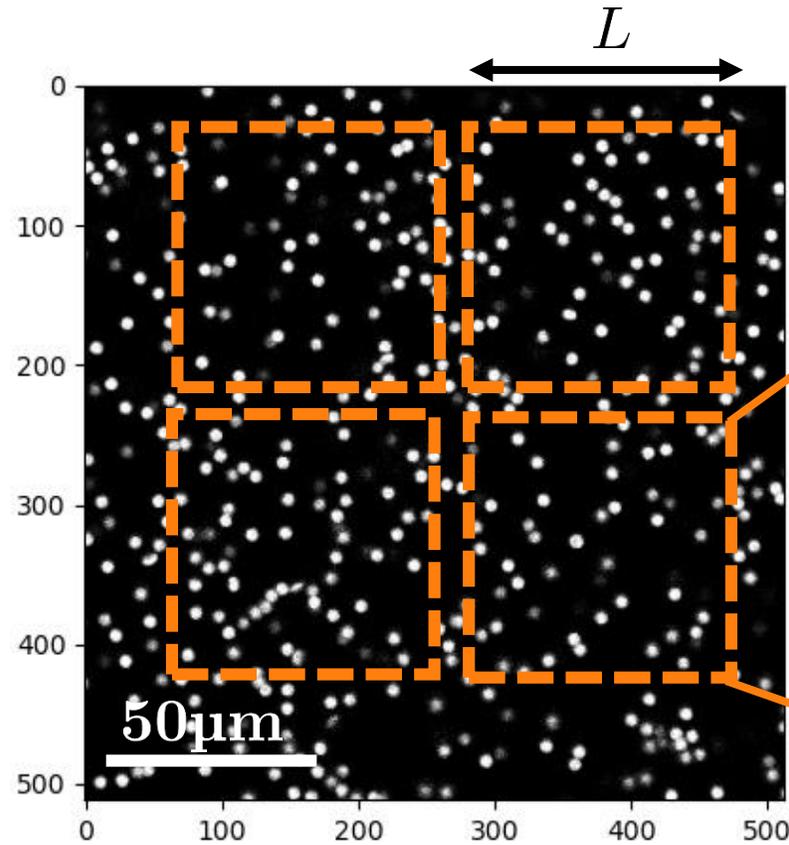
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# Intensity countscope



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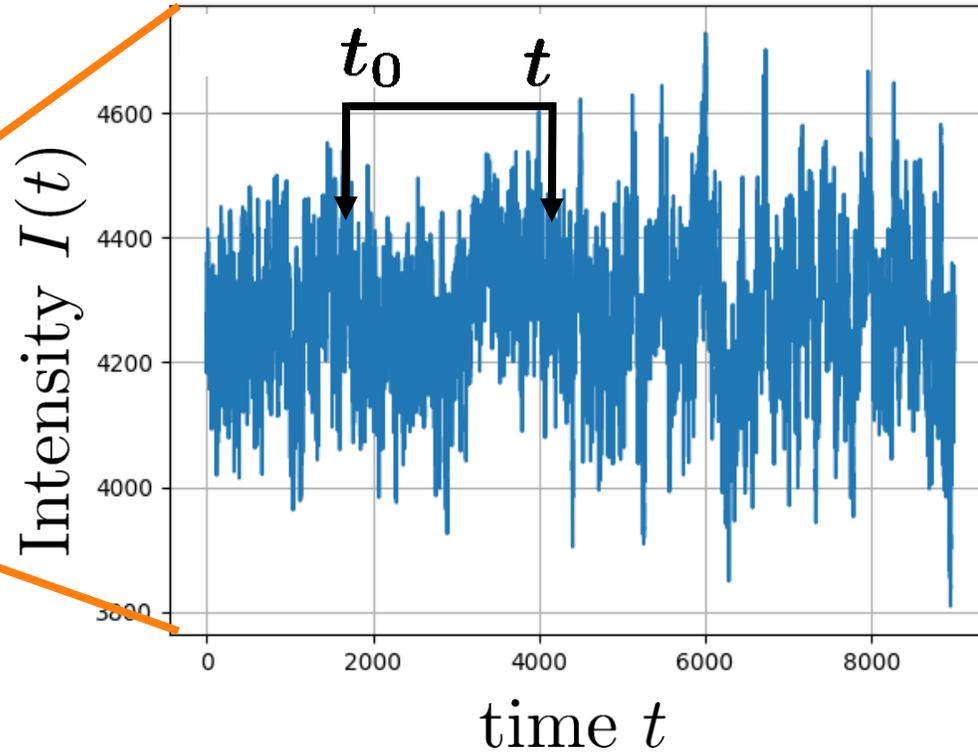
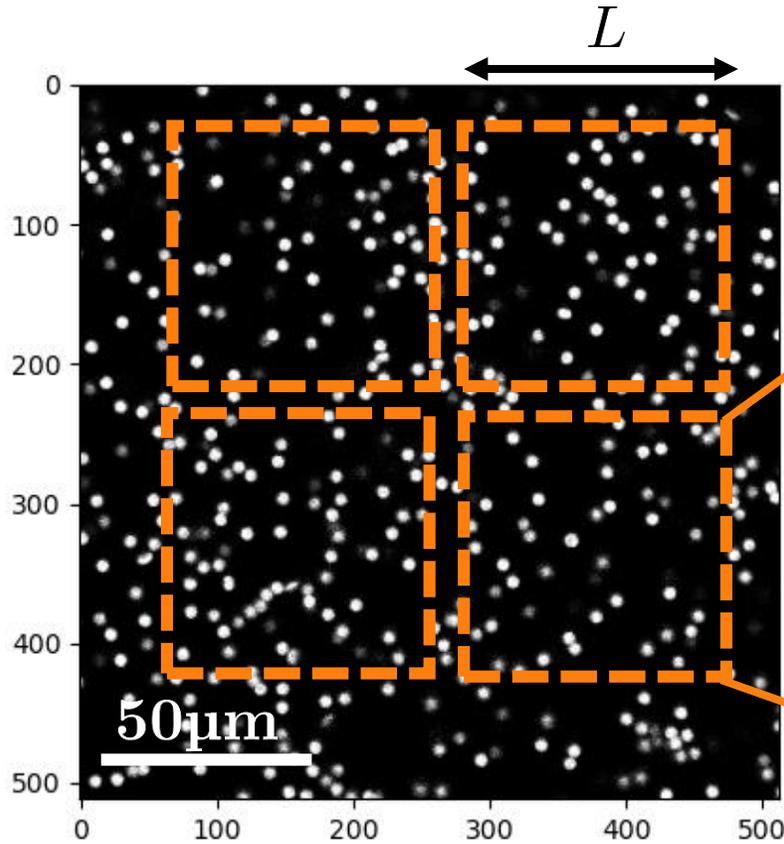
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$\rightarrow \langle I(t)I(t_0) \rangle$

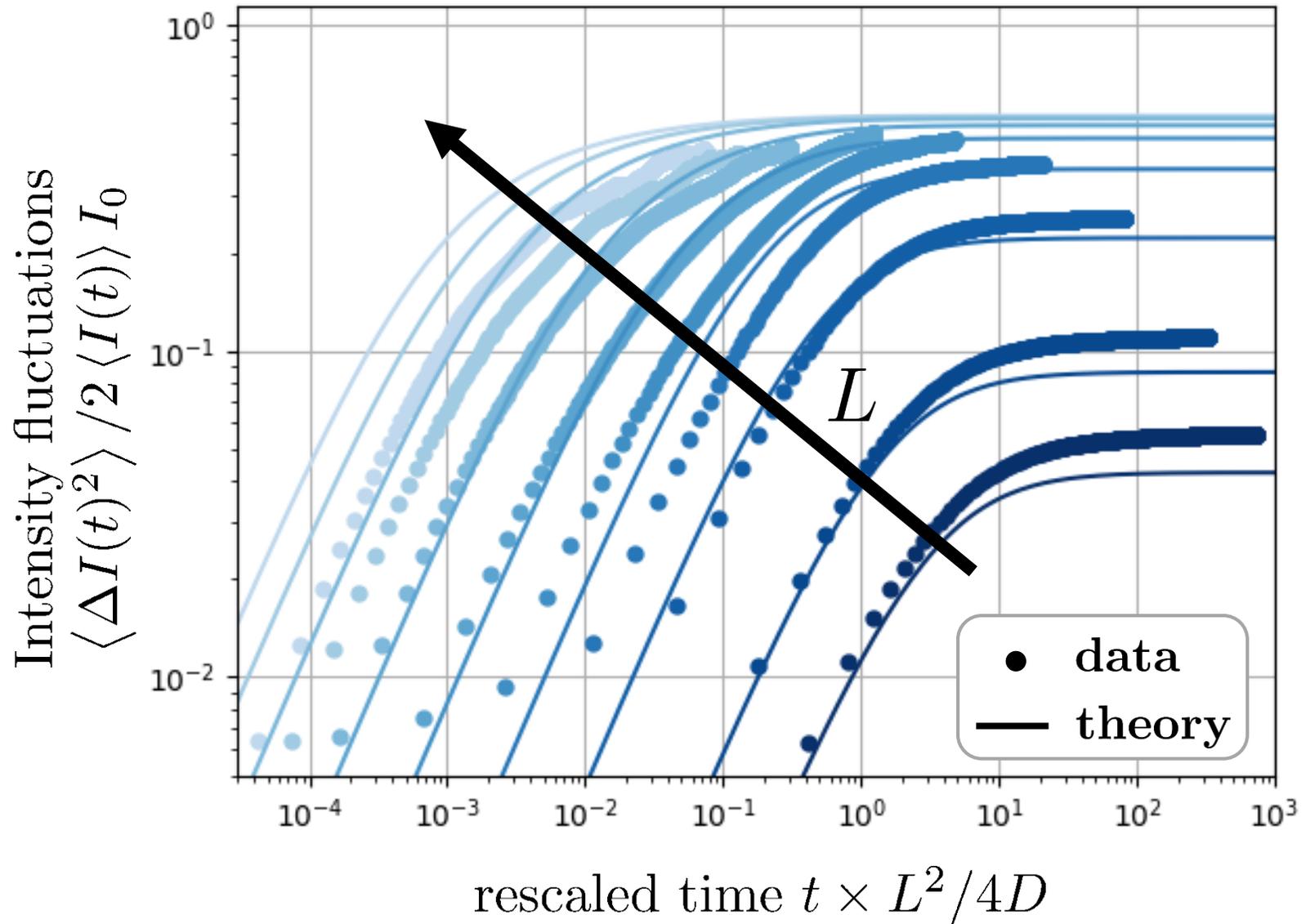
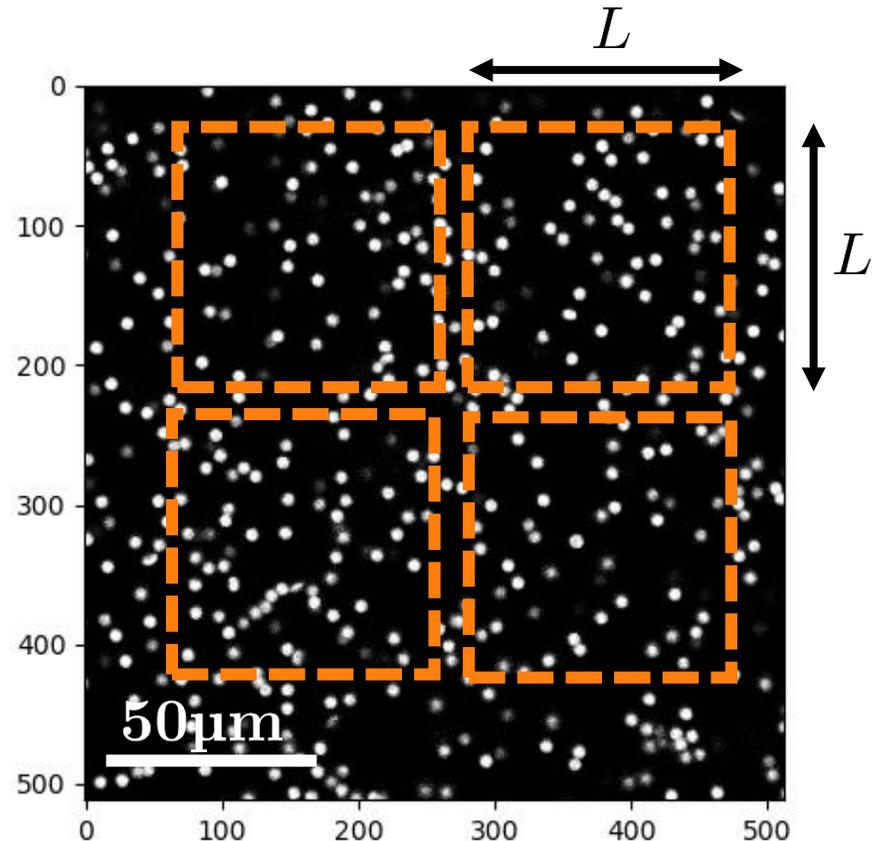
# Intensity countoscope



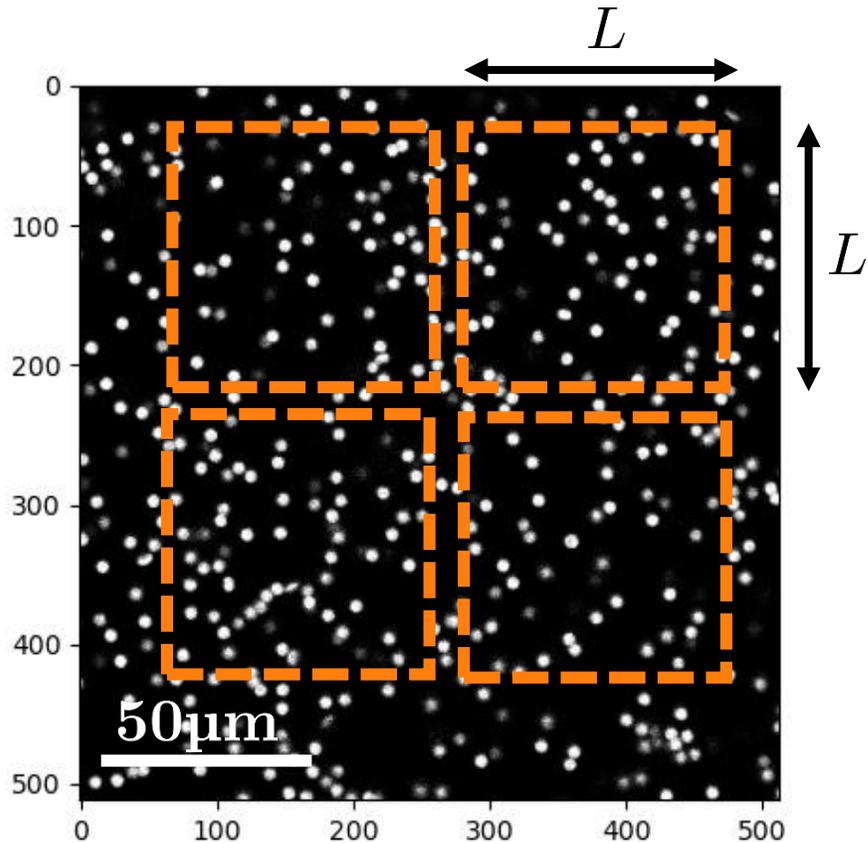
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$$\langle \Delta I(t)^2 \rangle = \langle (I(t) - I(t_0))^2 \rangle = 2 \langle I(t_0)^2 \rangle - 2 \langle I(t)I(t_0) \rangle$$

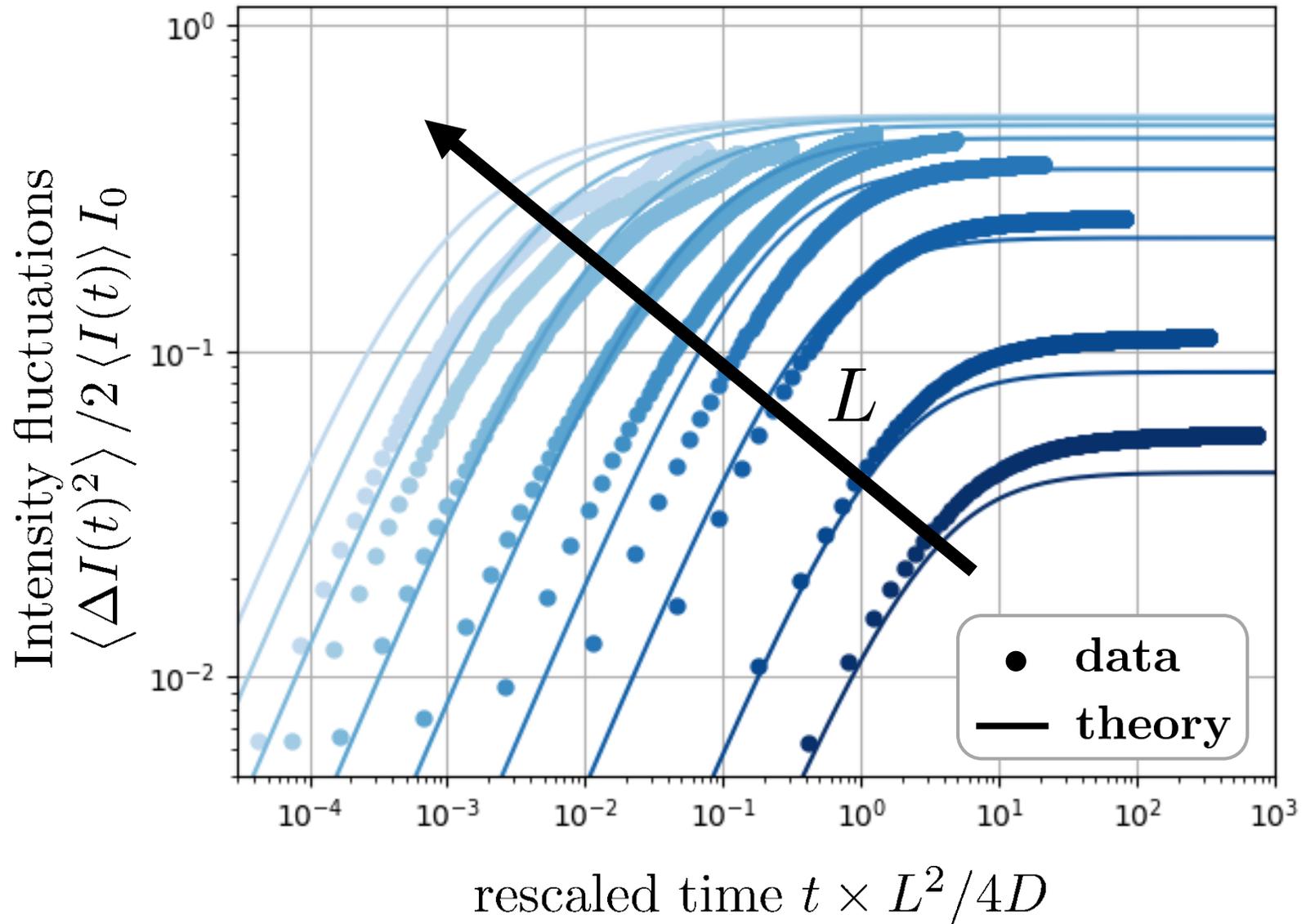
# Intensity countoscope



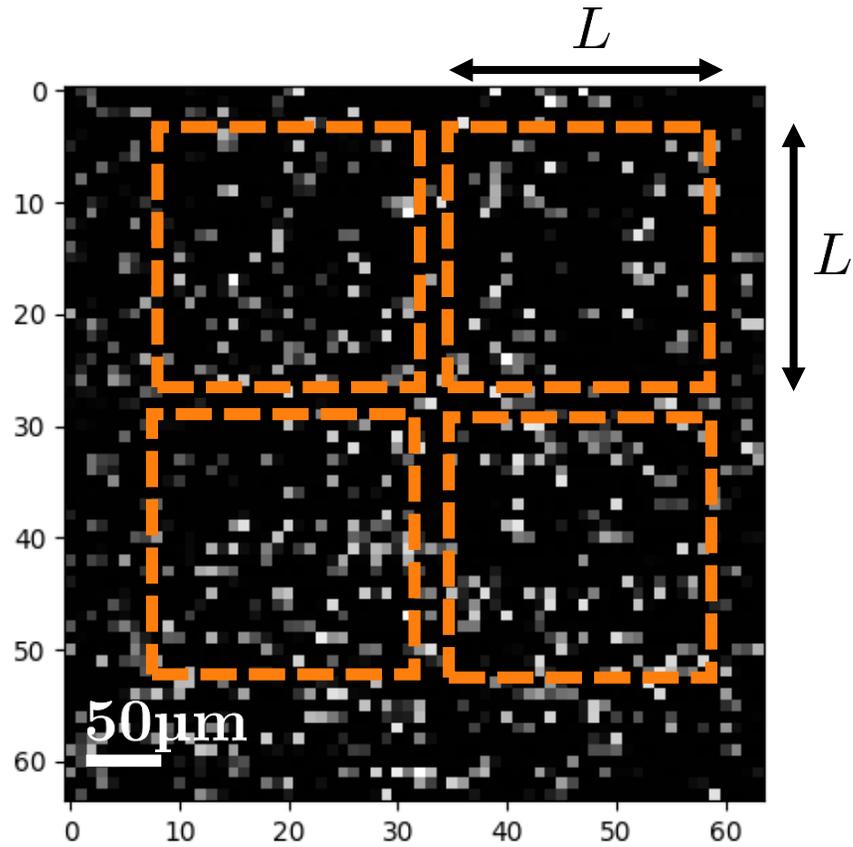
# Intensity countoscope



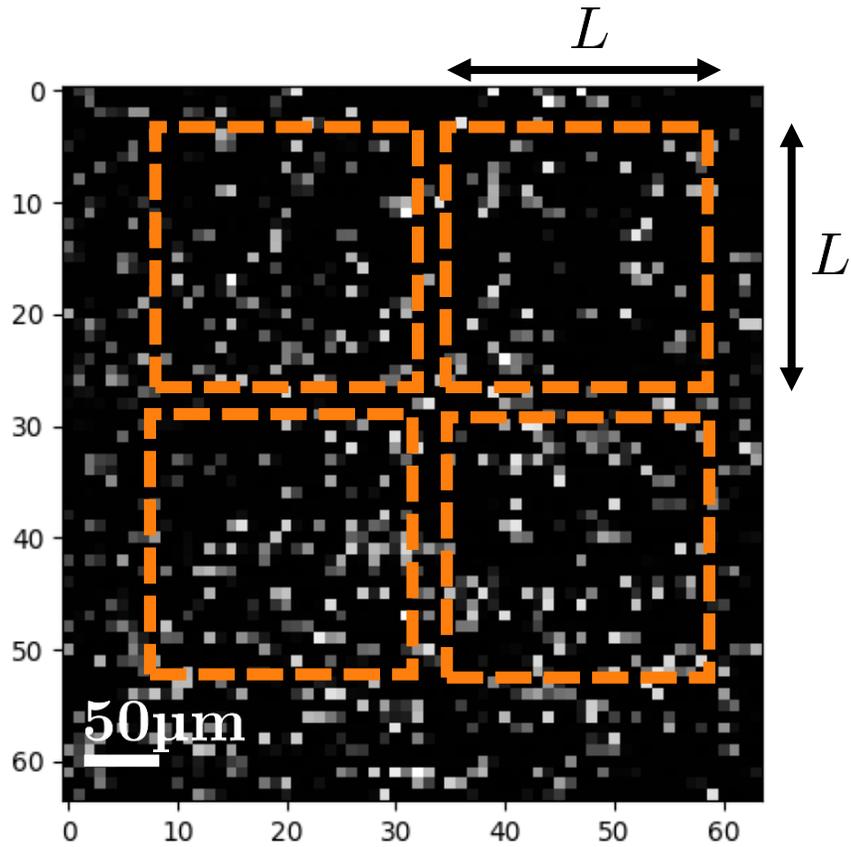
$\Rightarrow$  Learn  $D_{\parallel}$  and  $D_{\perp}$



# Intensity countoscope



# Intensity countoscope



$\Rightarrow$  See the answer at my poster