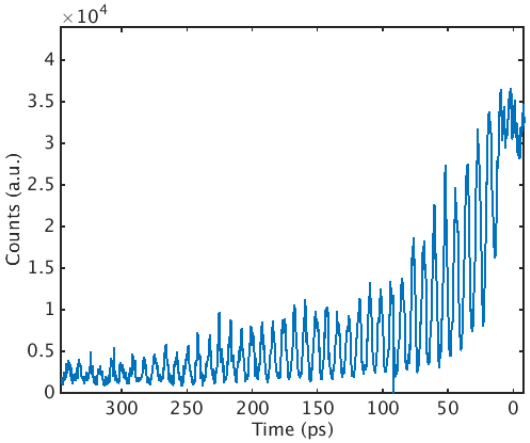
Group meeting

05.07.19

Fabian

Hann filter:

Effect of the Hann filter depends on the number of MB per image (density,window size) and the part of the bunch it shows:



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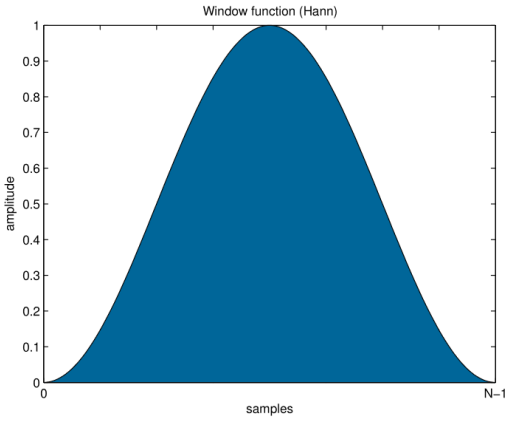

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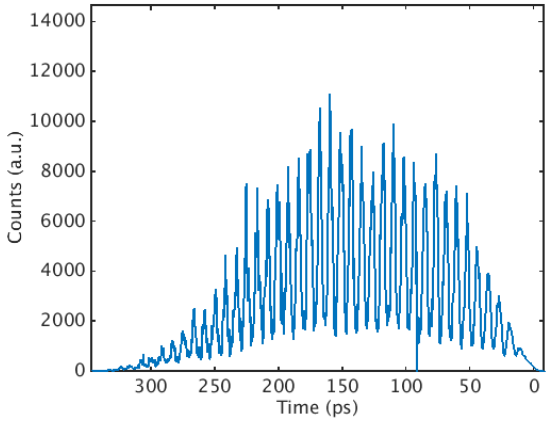

Source: https://de.wikipedia.org

Cos² like funktion

Hann filter:

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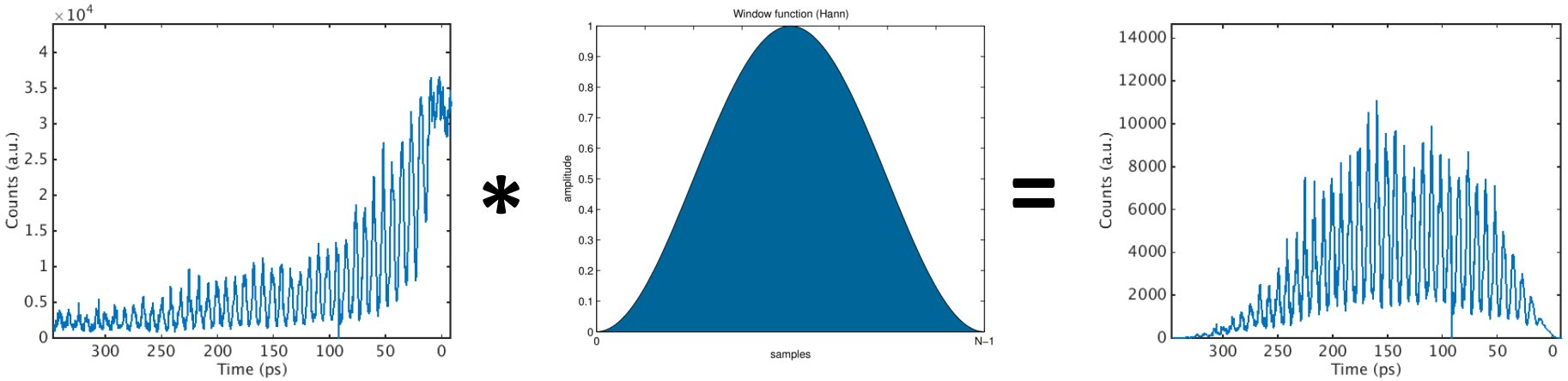
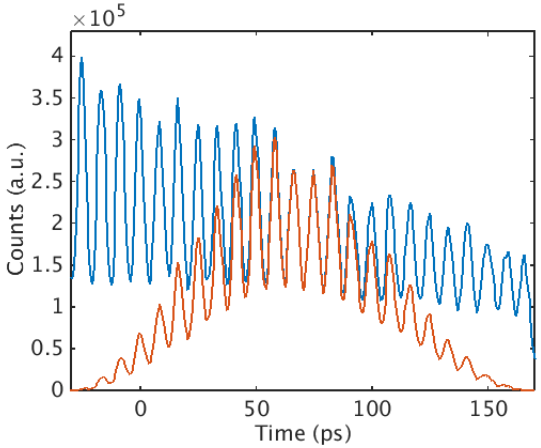


Source: https://de.wikipedia.org

Better:



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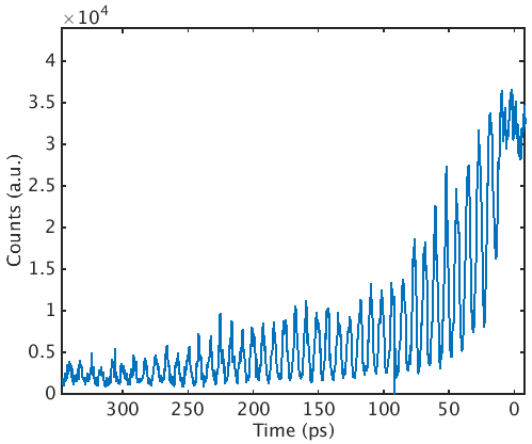

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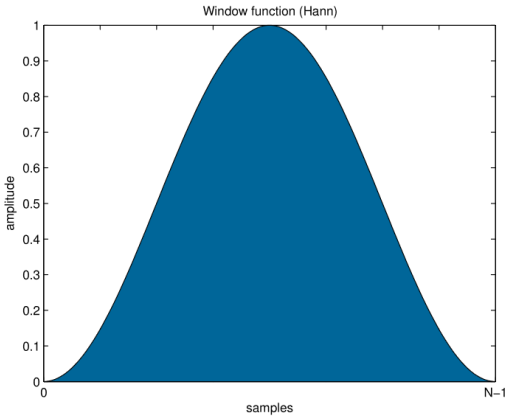

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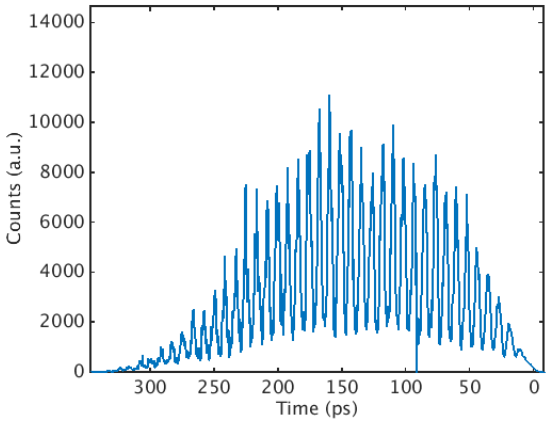
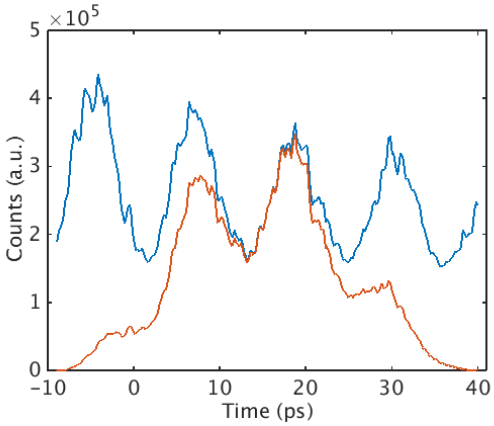


Source: https://de.wikipedia.org

Cos² like funktion

Worse:



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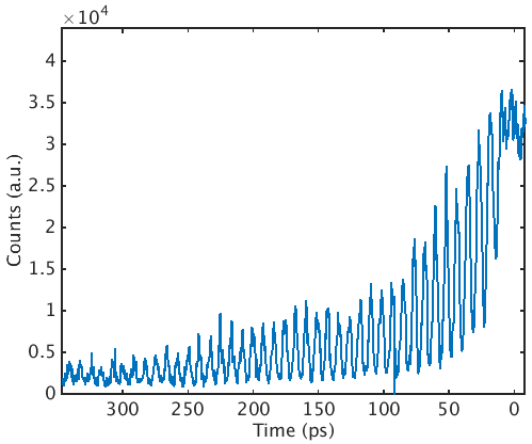

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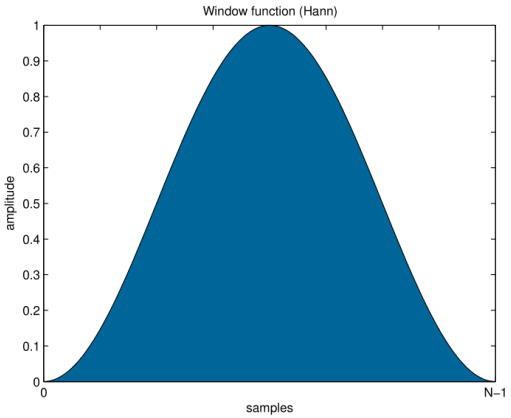

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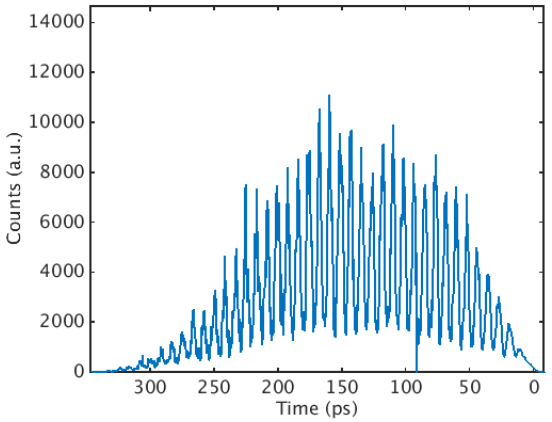
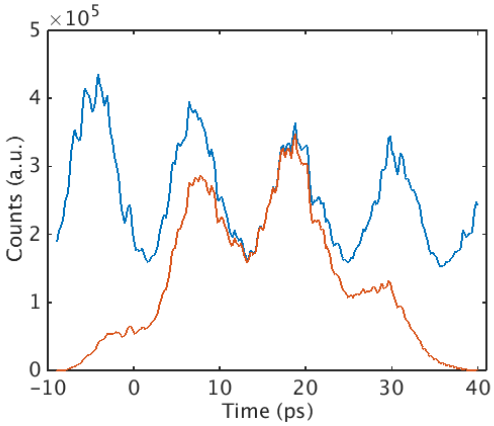


Source: https://de.wikipedia.org

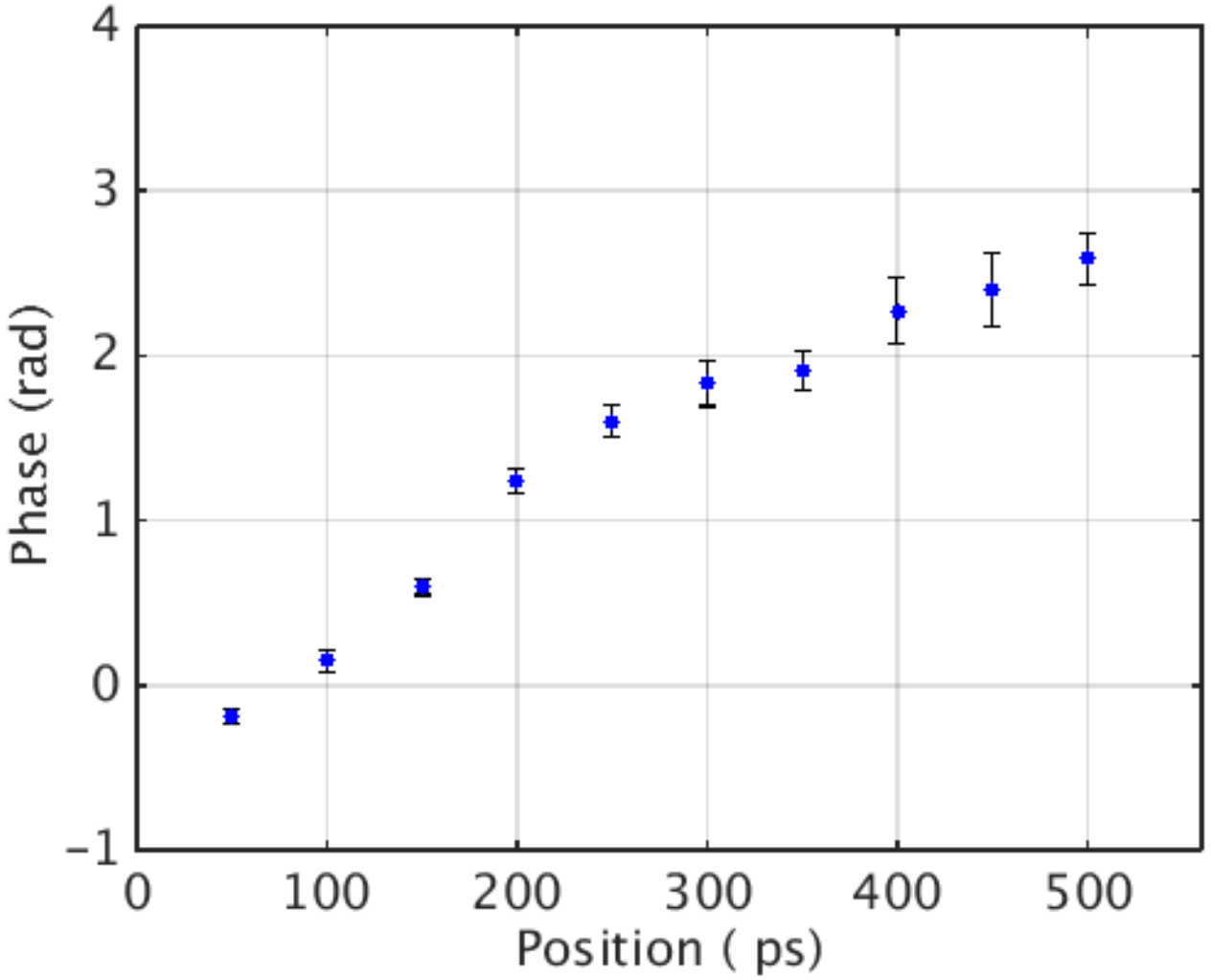
Cos² like funktion

Worse:



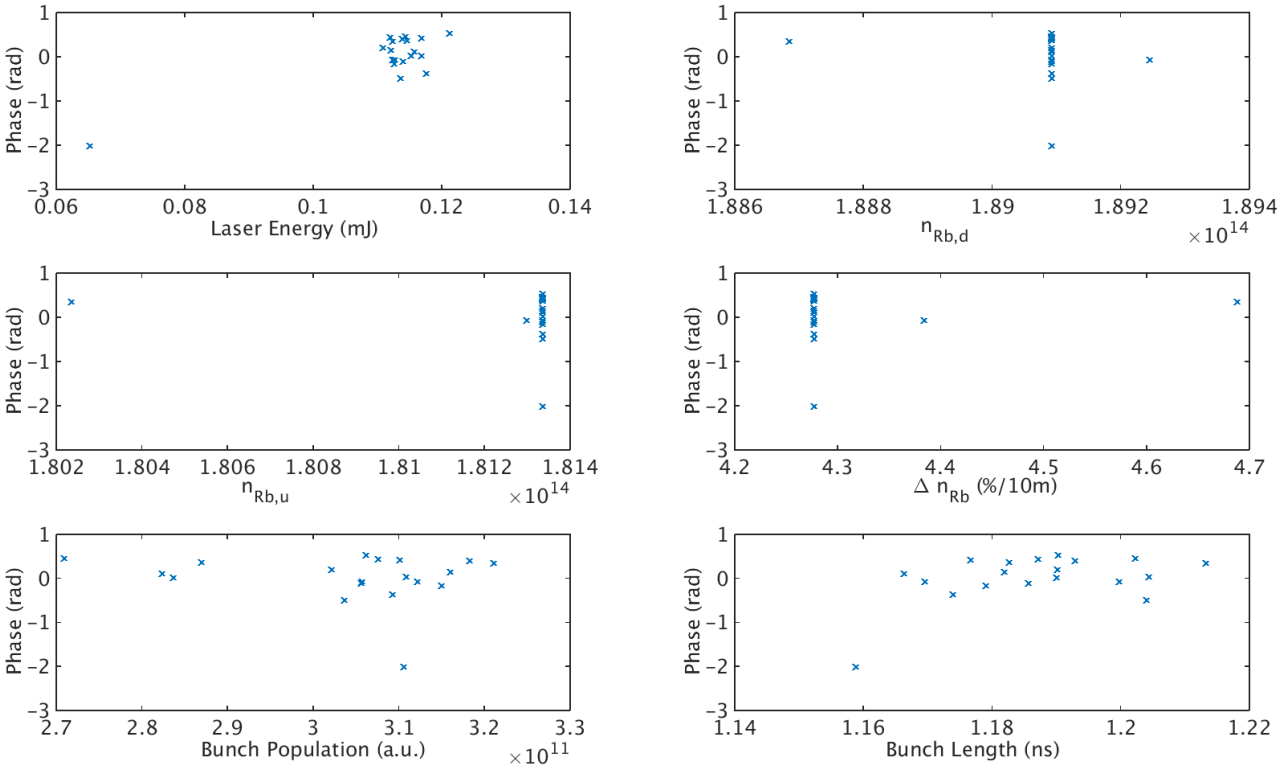
No improvement found

Cut plot after 2 σ,



Parameter fluctuations

Do laser energy, charge, bunch length, density effect the phase, what is their variation?



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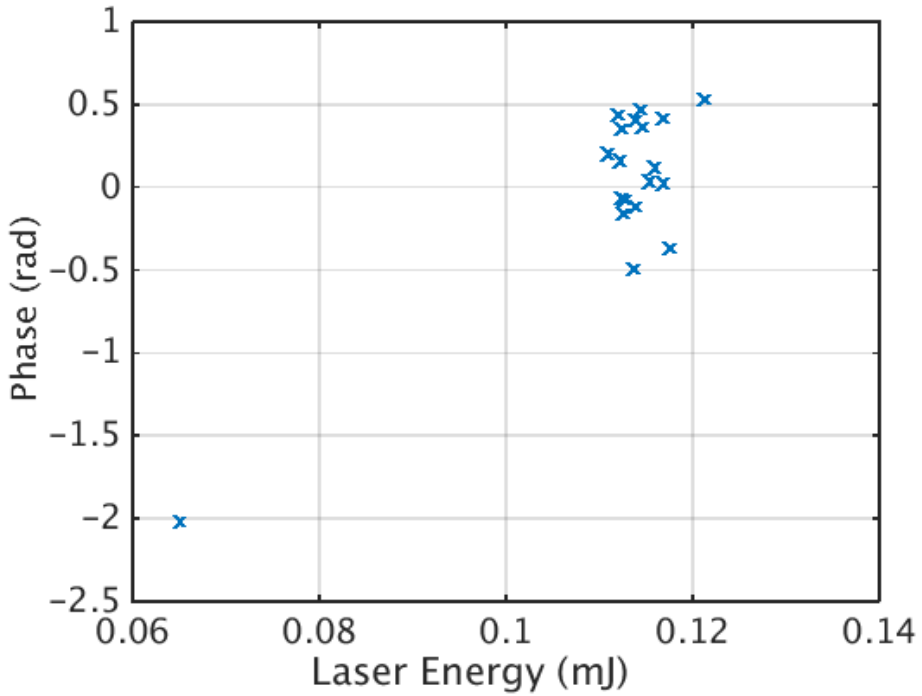

No effect for other data sets!

Parameter fluctuations

Do laser energy, charge, bunch length, density effect the phase, what is their variation?

Laser energy: 2 % (std)
Charge: 5 % (std)
Bunch length: 3 % (std)
Laser jitter: 15-20 ps

Sigma_r to be determined

AOB

All heaters work
-> Test chillers + valves

Spectrometer software license (oceanview) updated,
Activations reset -> one activation left