Analysis of MCPPMT pulses from Argonne laser test stand

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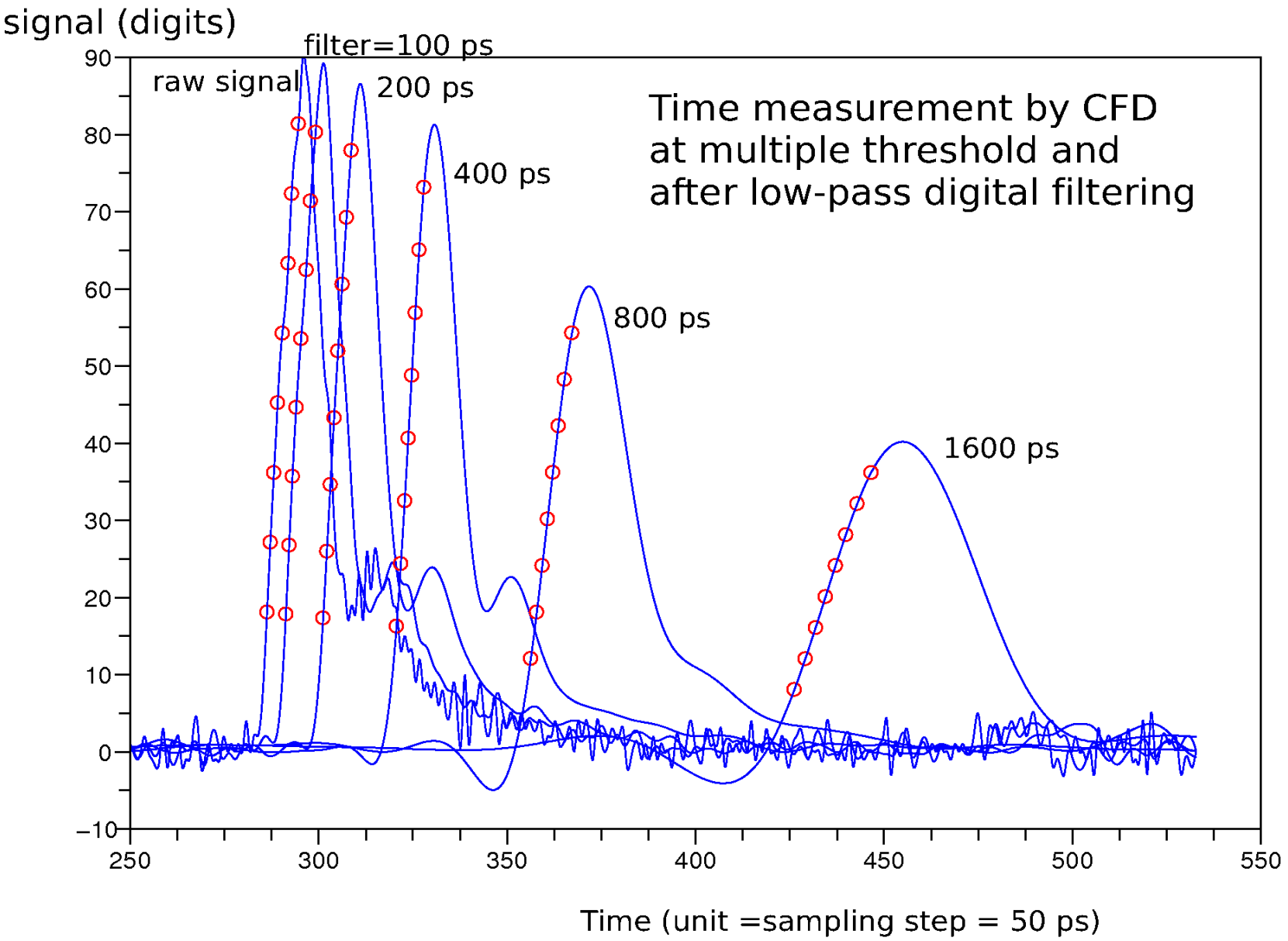
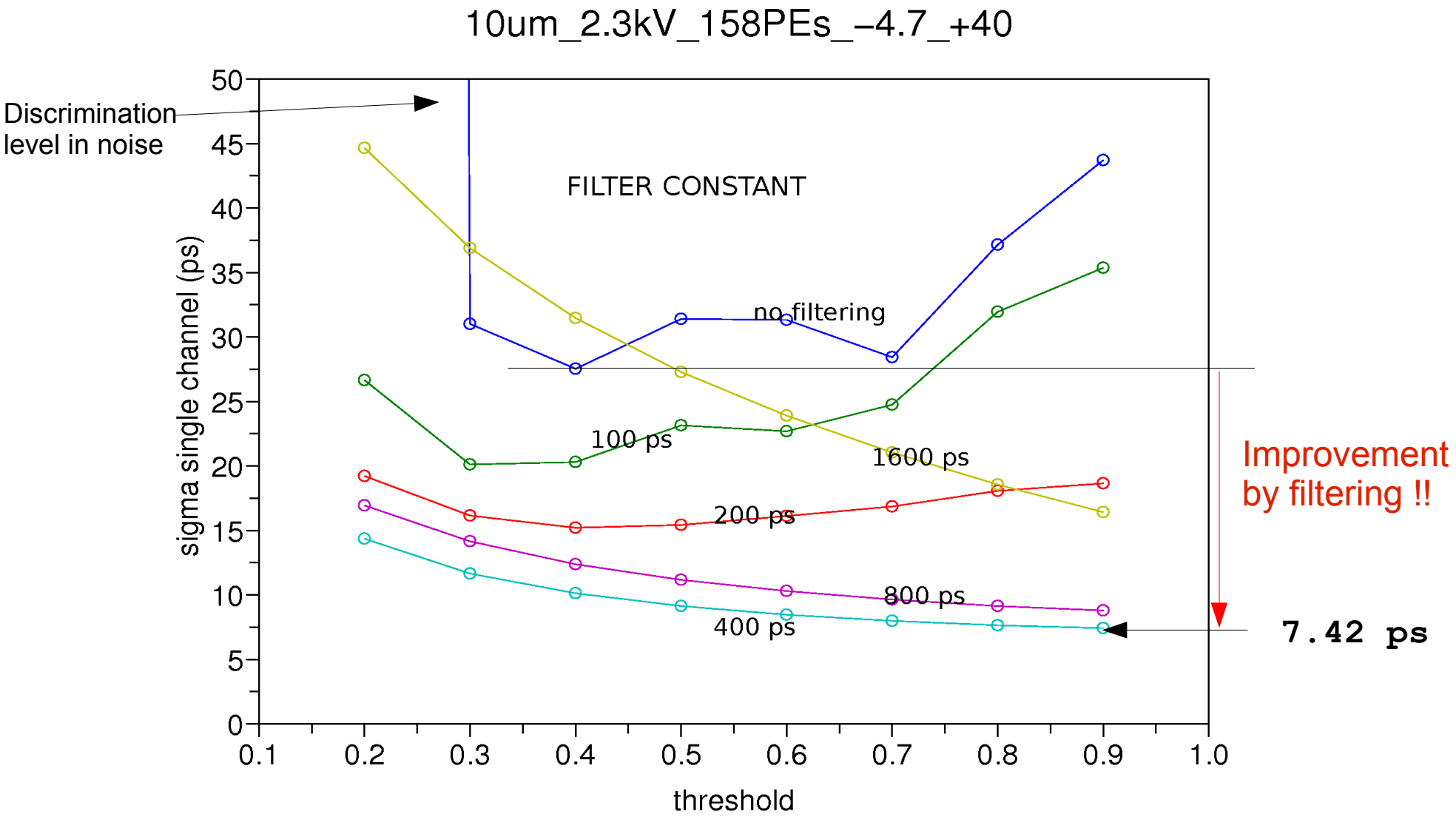
method :

- low-pass filtering by cubic splines with different time constants
- constant fraction discriminator applied to the filtered signal

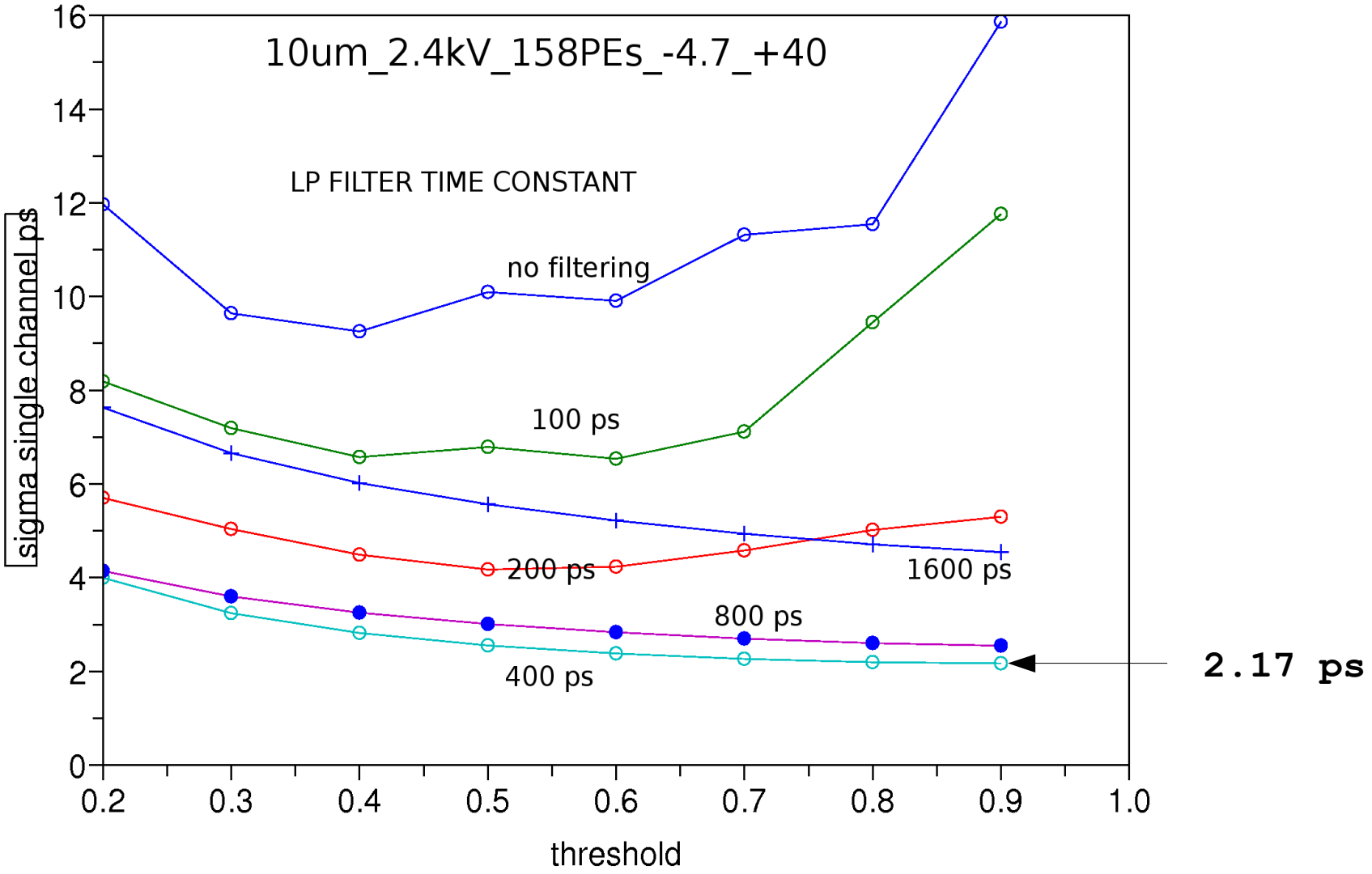




CH1
sigma noise = 8.50
amplitude ~ 62

CH2
sigma noise = 11.0
amplitude ~ 62

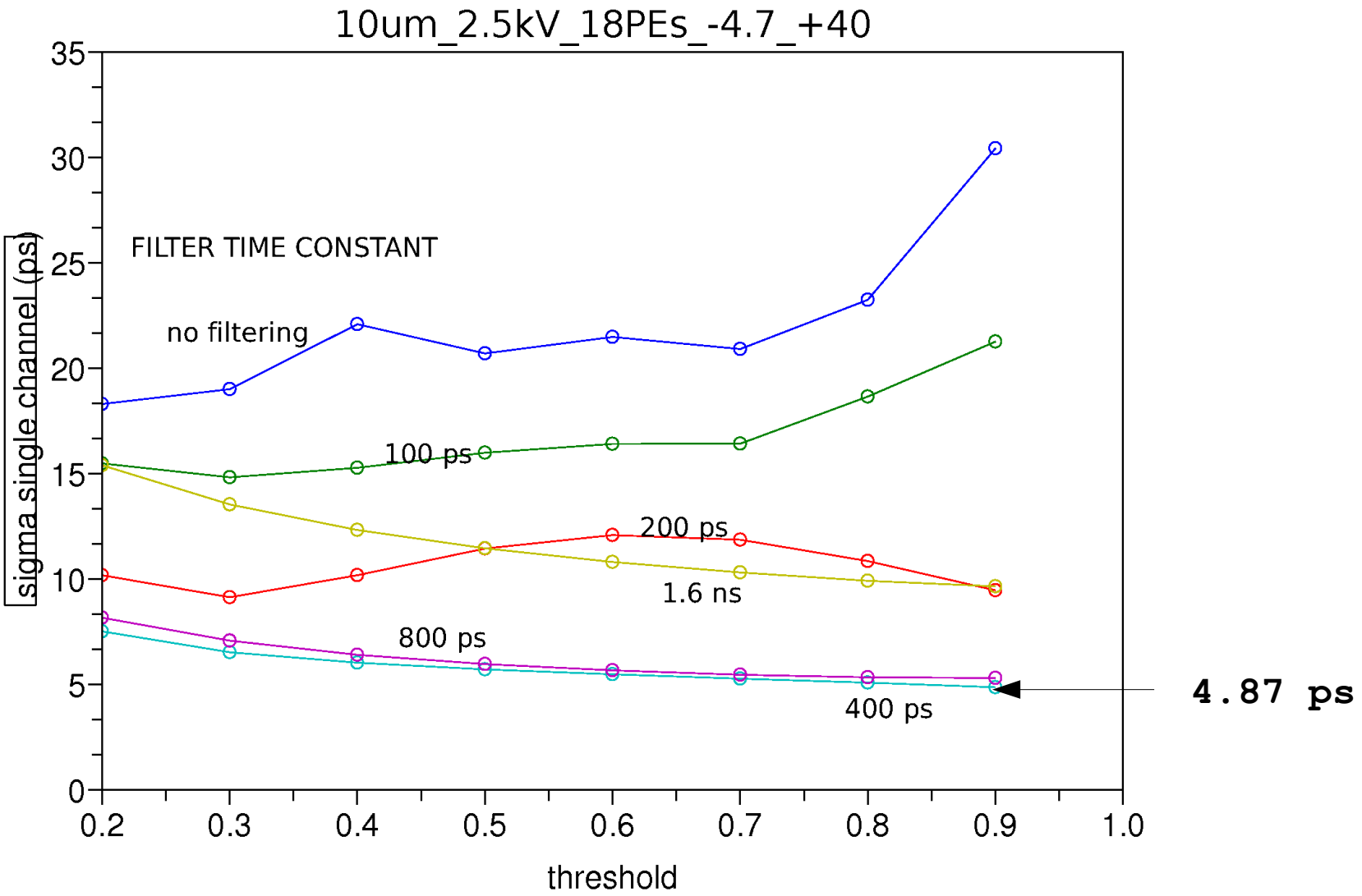
Unit : ADC counts



CH1
sigma noise = 1.6
amplitude ~ 95

CH2
sigma noise = 1.7
amplitude ~ 96

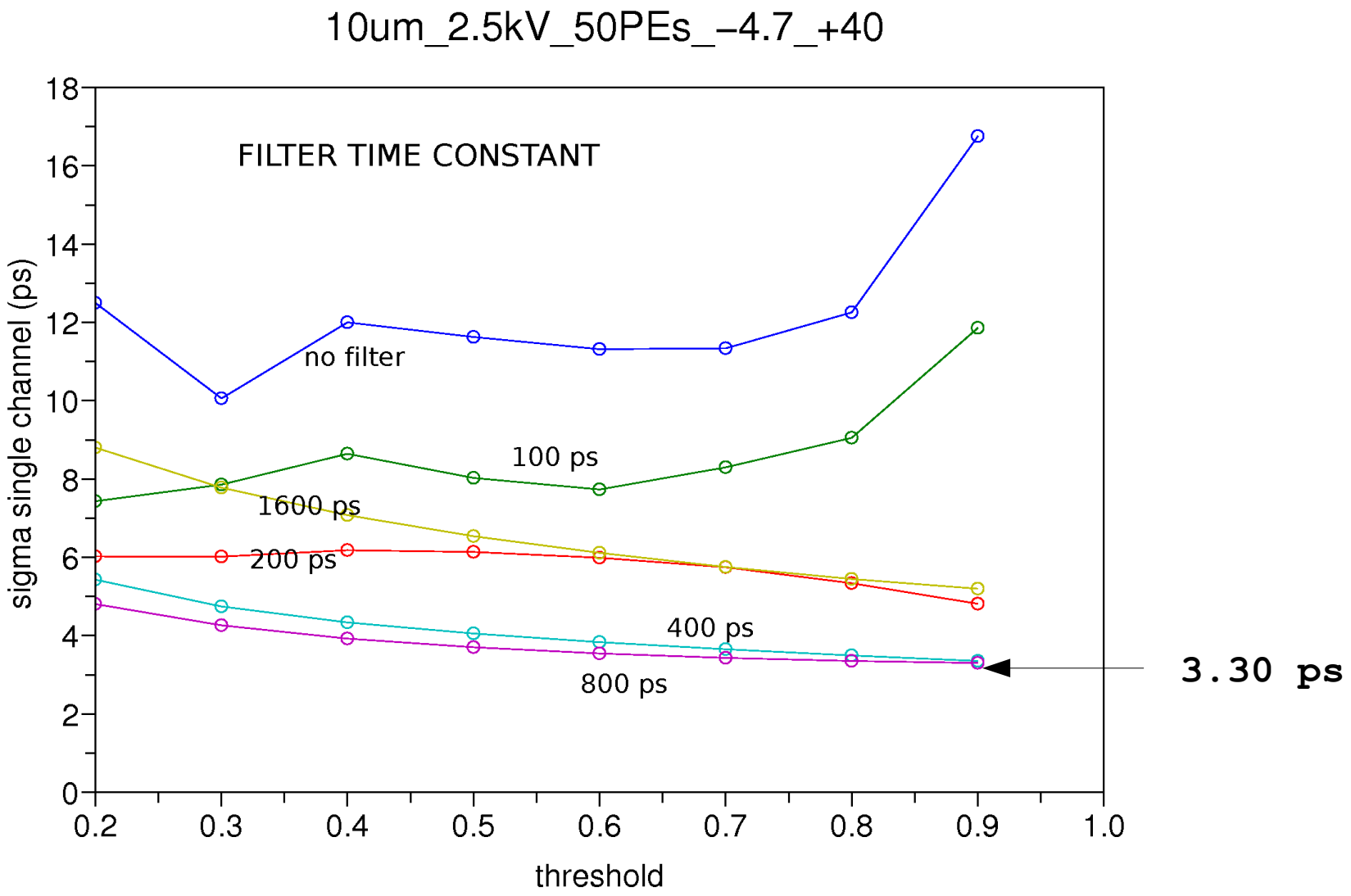
Unit : ADC counts



CH1
sigma noise = 3.3
amplitude ~ 99

CH2
sigma noise = 3.4
amplitude ~ 100

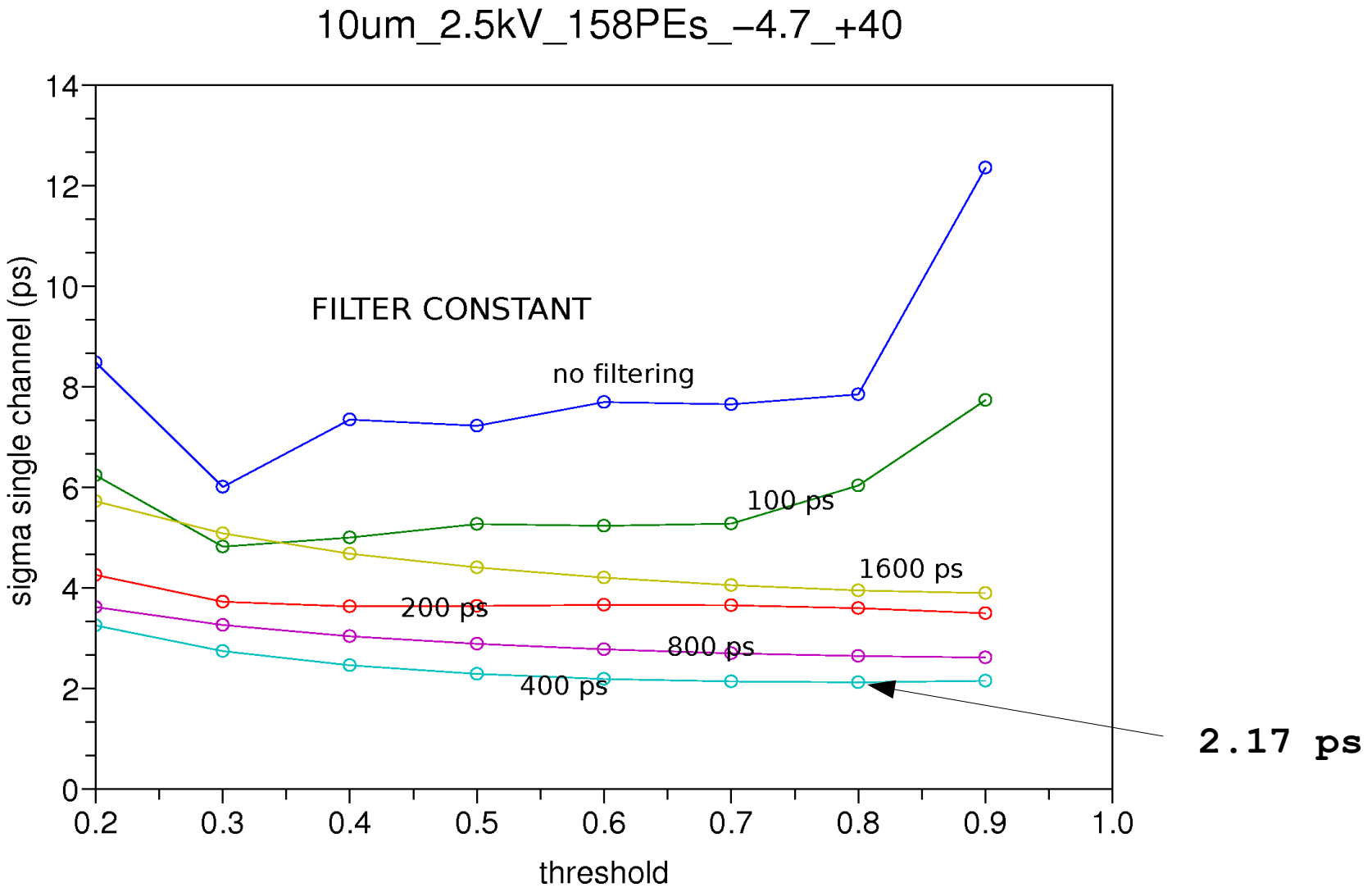
Unit : ADC counts



CH1
sigma noise = 1.6
amplitude ~ 86

CH2
sigma noise = 1.7
amplitude ~ 87

Unit : ADC counts

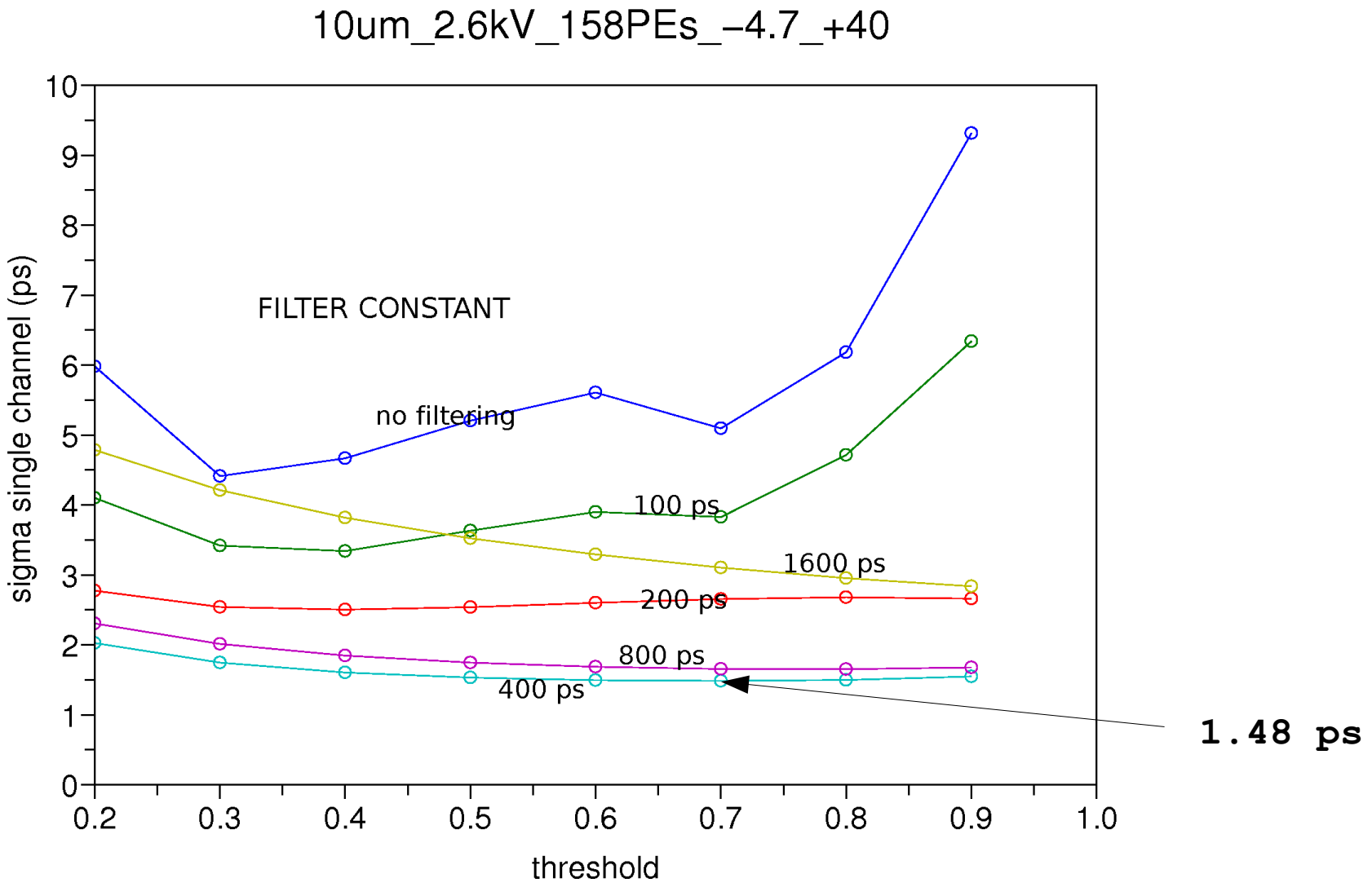


2.17 ps

CH1
sigma noise = 1.4
amplitude ~ 86

CH2
sigma noise = 1.3
amplitude ~ 83

Unit : ADC counts



1.48 ps

CH1
sigma noise = 1.4
amplitude ~ 143

CH2
sigma noise = 1.3
amplitude ~ 138

Unit : ADC counts