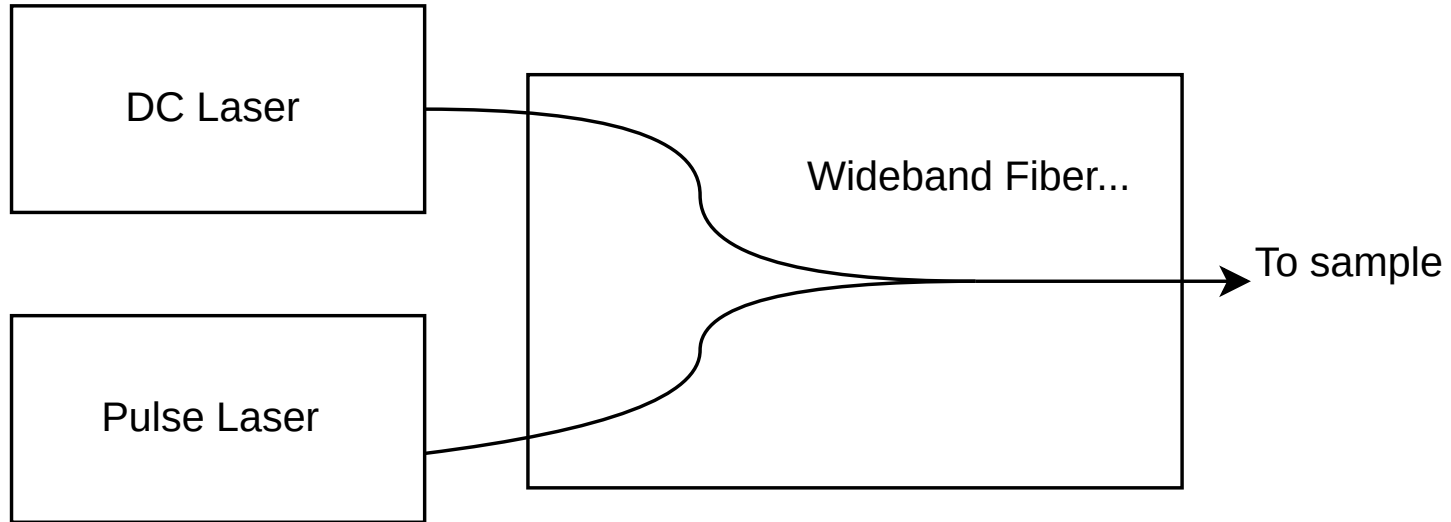


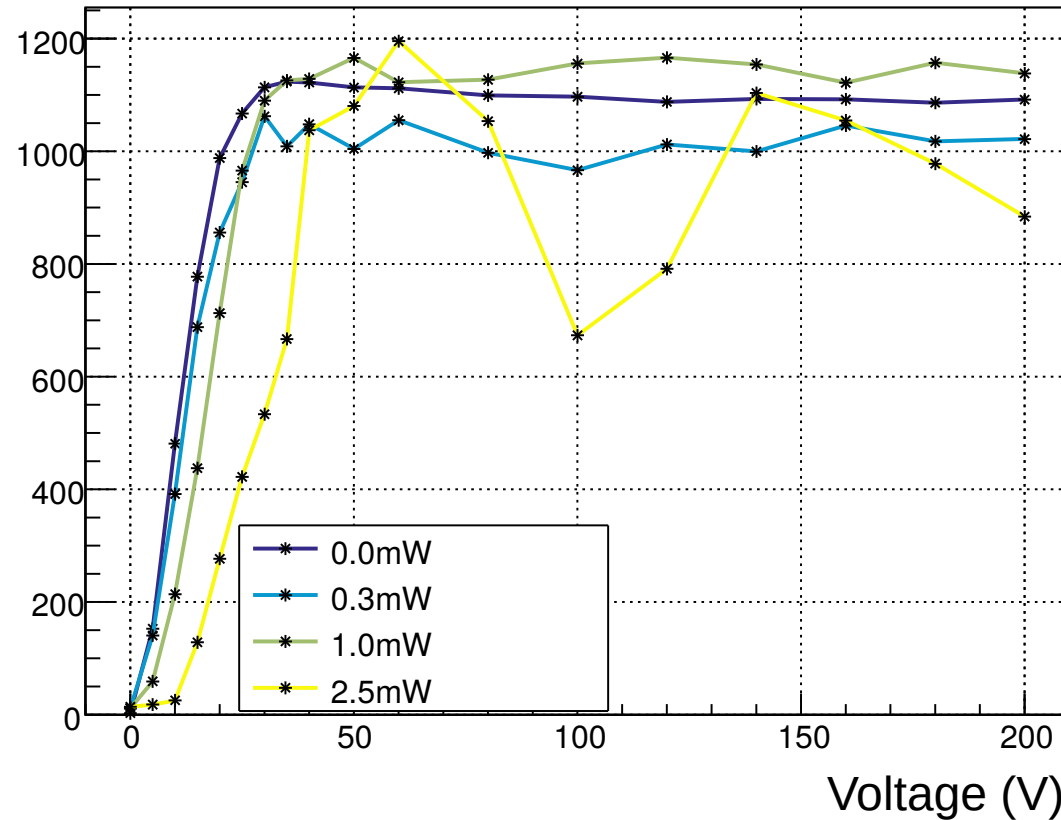
Updated TCT setup



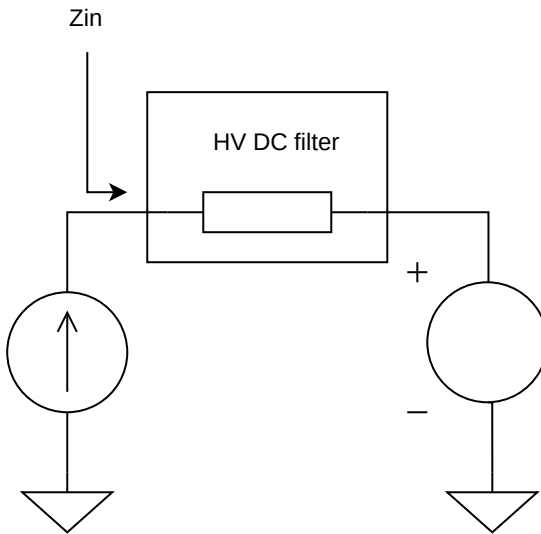
TW1064R5F1B - 1x2 Wideband Fiber Optic Coupler, 1064 ± 100 nm, 0.22 NA, 50:50 Split, FC/PC

Knee at low voltage

Integrated charge vs. bias voltage



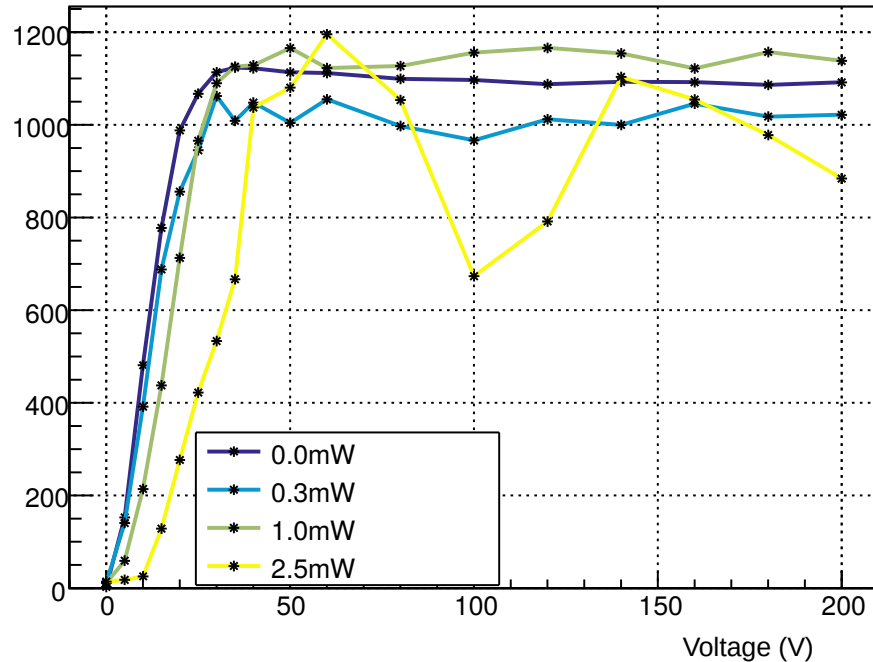
Cause



Reducing filter impedence

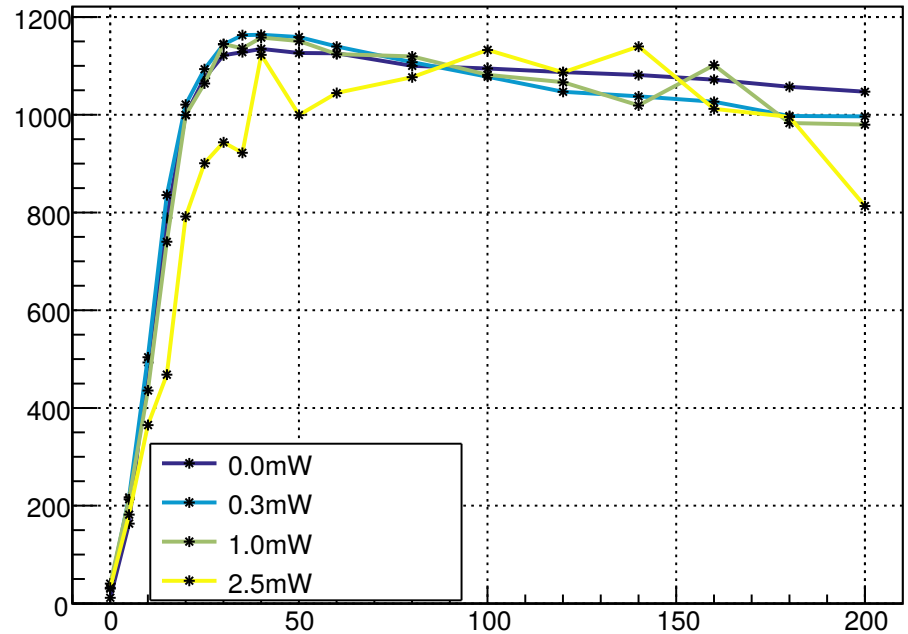
$Z_{in} = \sim 100k\Omega$

Integrated charge vs. bias voltage



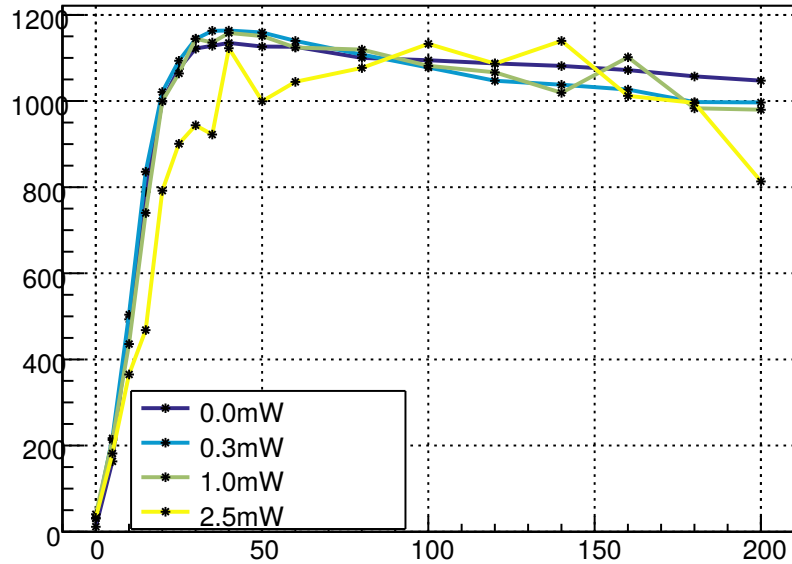
$Z_{in} = \sim 8k\Omega$

(Integrated charge $Z=3600.0\mu m$)



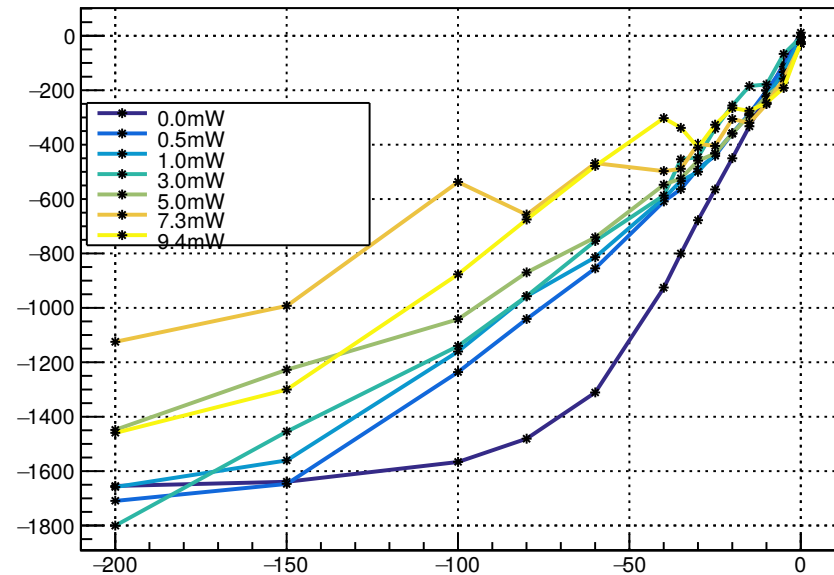
Comparing samples (charge)

(Integrated charge Z=3600.0um)



2885-5

(Integrated charge Z=3380.0um)



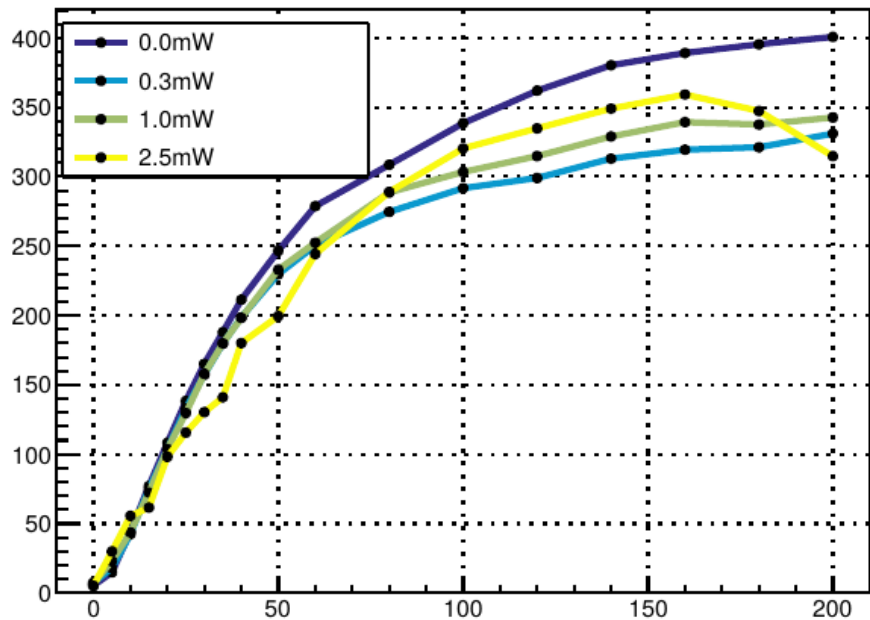
CZ40 (1e14)

Peak voltage

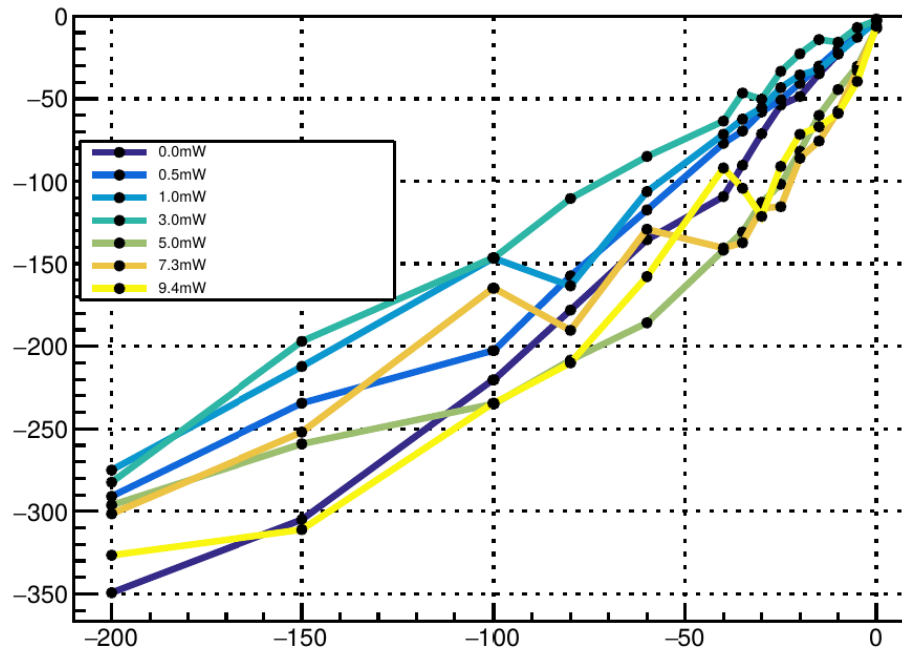
2882-5

CZ40 (1e14)

(Peak voltage Z=3600.0um)



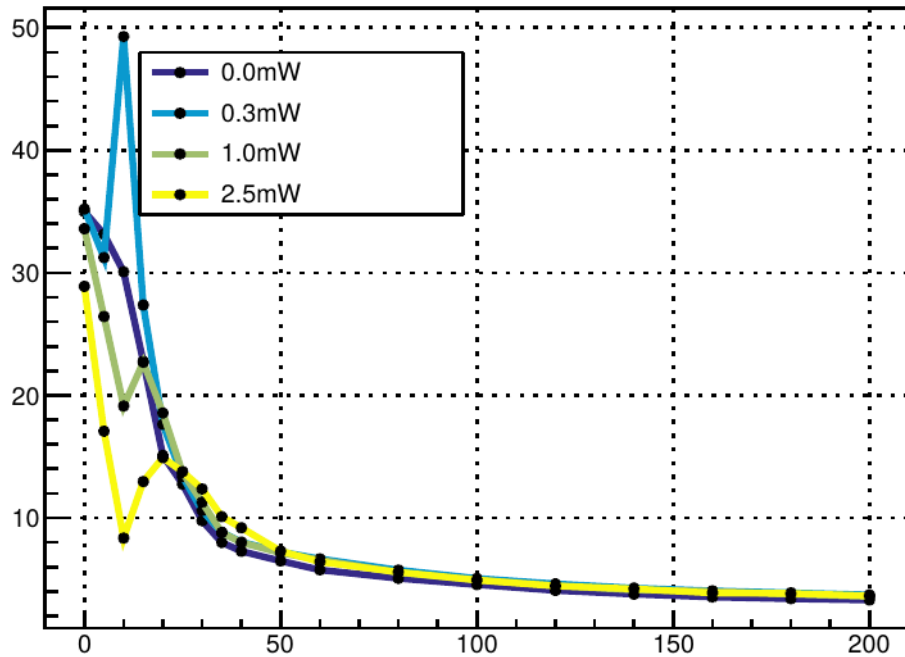
(Peak voltage Z=3380.0um)



Pulse width 20% V_{peak}

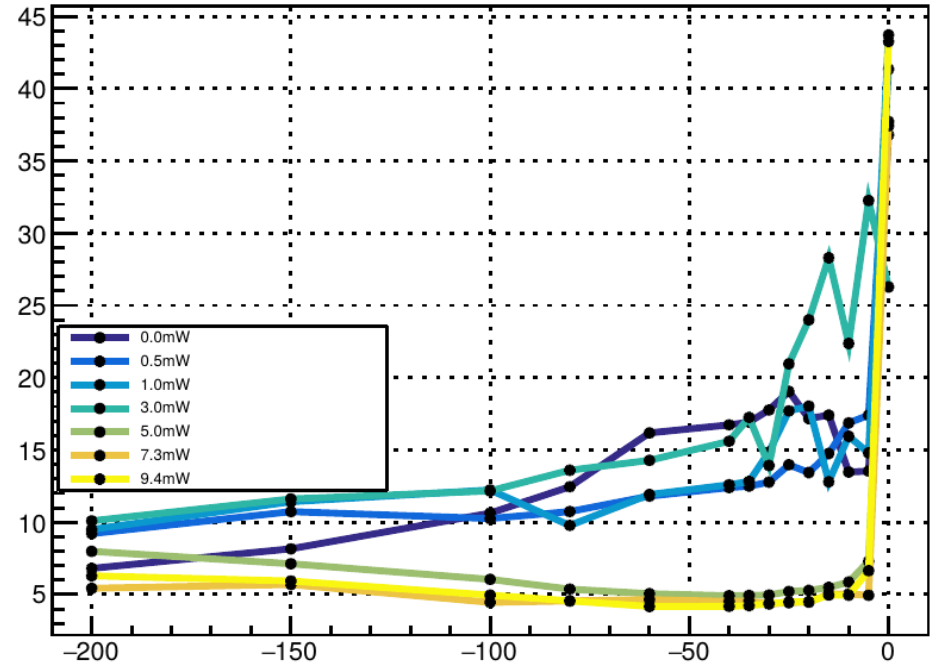
2882-5

(Pulse 20% width $Z=3600.0\mu\text{m}$)



CZ40 (1e14)

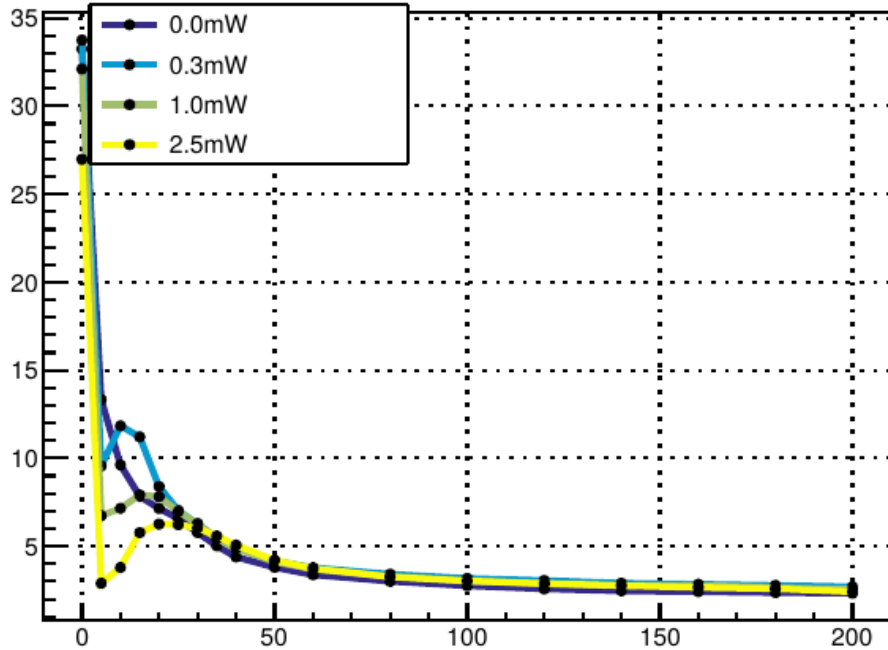
(Pulse 20% width $Z=3380.0\mu\text{m}$)



Pulse width 50% V_{peak}

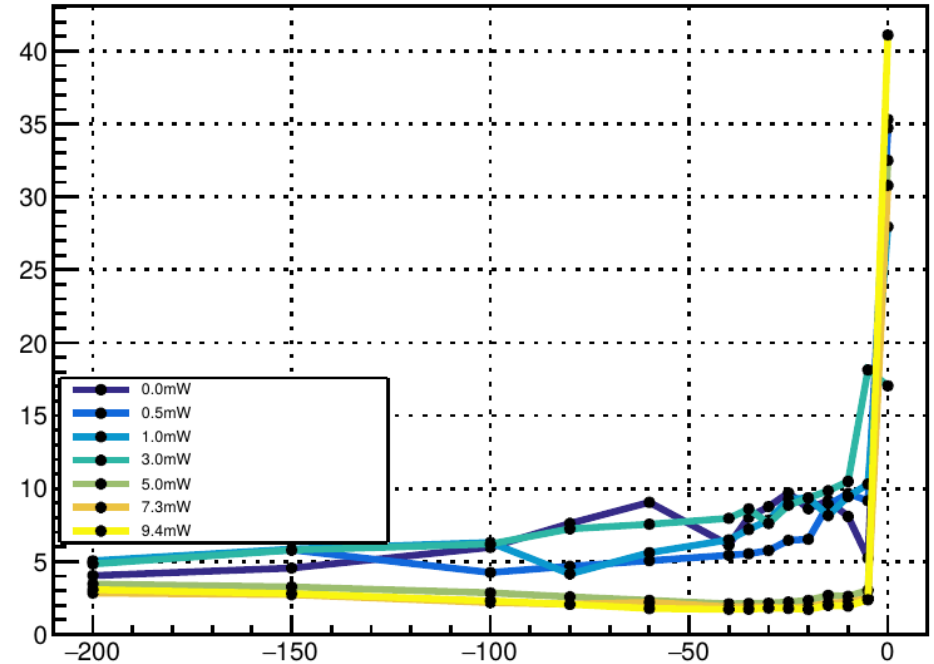
2882-5

(Pulse 50% width $Z=3600.0\mu\text{m}$)



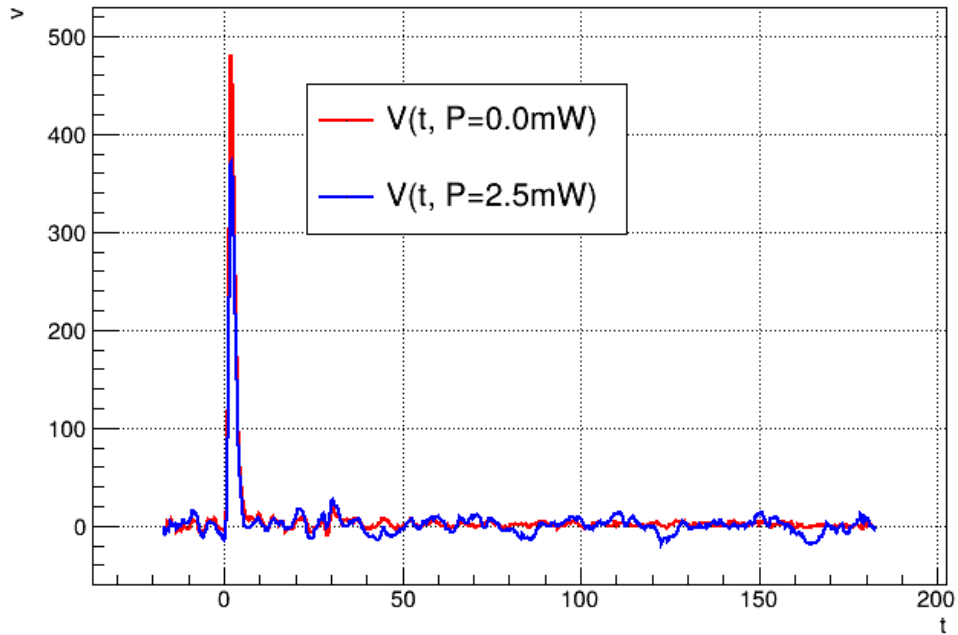
CZ40 ($1e14$)

(Pulse 50% width $Z=3380.0\mu\text{m}$)



Signal vs. DC power

2885-5



CZ40 (1e14)

