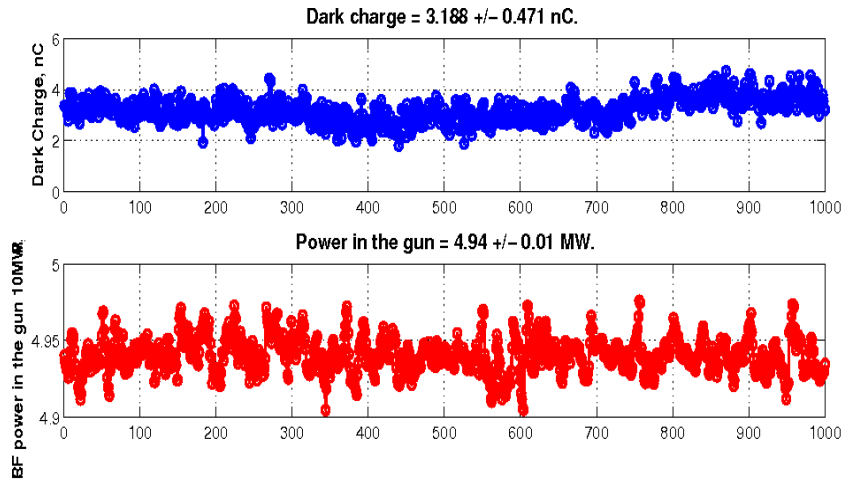


# Dark current comparison with FLASH

**PITZ** Low.FC2 @1379 mm: 3.2nC



## From FLASH

rf gun: Pwd 5 MW

pulse length: 630 us

Sol: 308 A

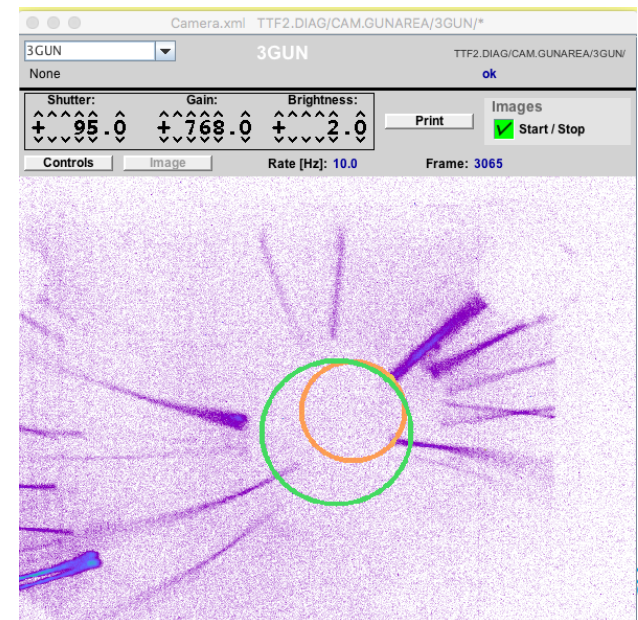
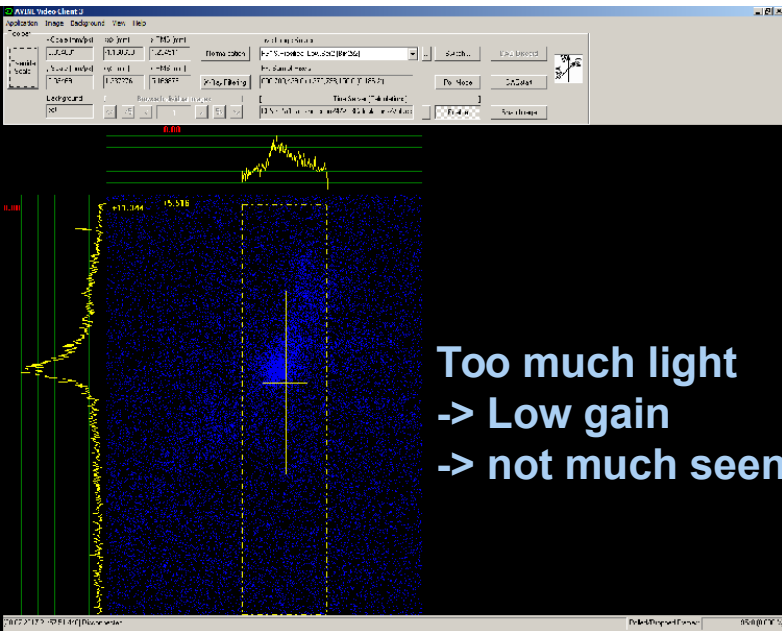
Buck: -26 A

Dark current on FC = 6 uA

Distance from cathode: 1540 mm

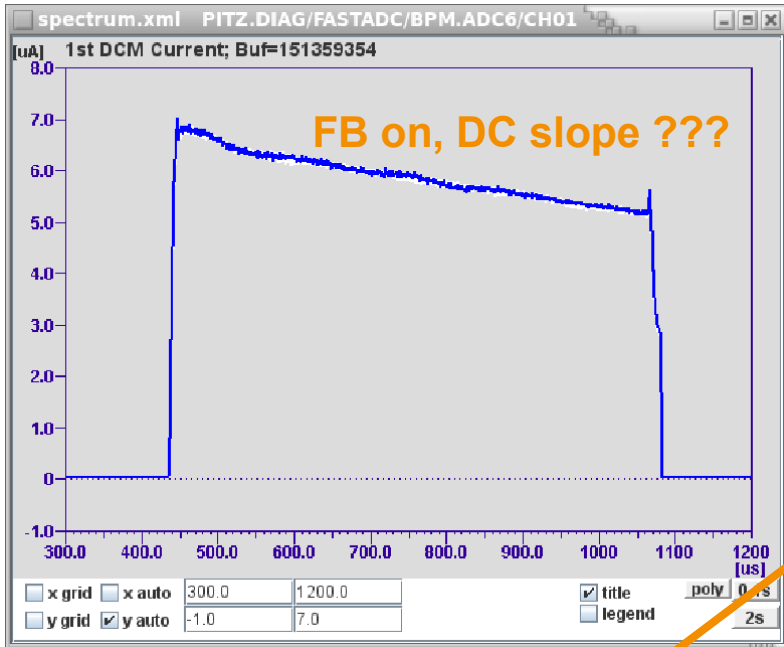
$$6\mu\text{A} * 630\mu\text{s} = 3.8\text{nC}$$

Data saved to /doocs/measure/ChargeMeasurements/2017/20170728A/dark\_charge\_2221.txt  
 Dark charge using Low.FC2. RF pulse length 650 us. I<sub>main</sub> = 307.7. I<sub>buck(compensated)</sub> = 25.6 A.



# Dark current comparison with XFEL

**PITZ** Low.DCM1  
@2141 mm with 53MV/m



**XFEL** DCM.25.I1  
@2250 mm with 53MV/m

