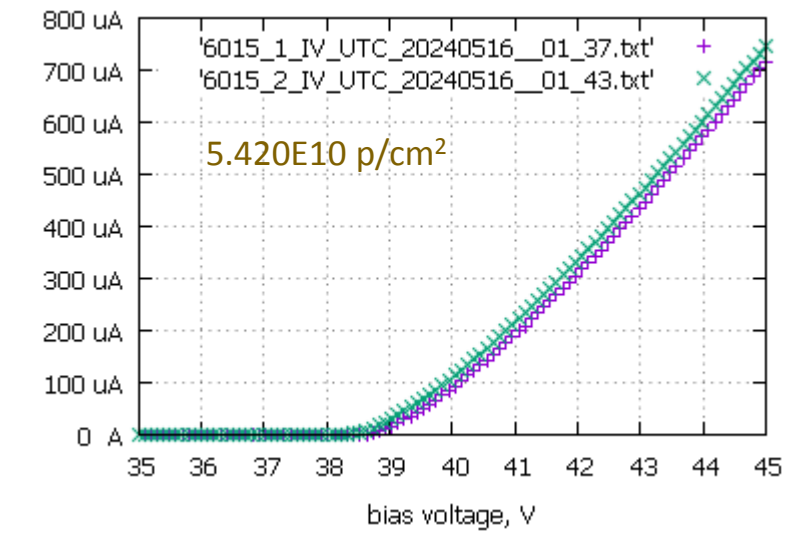
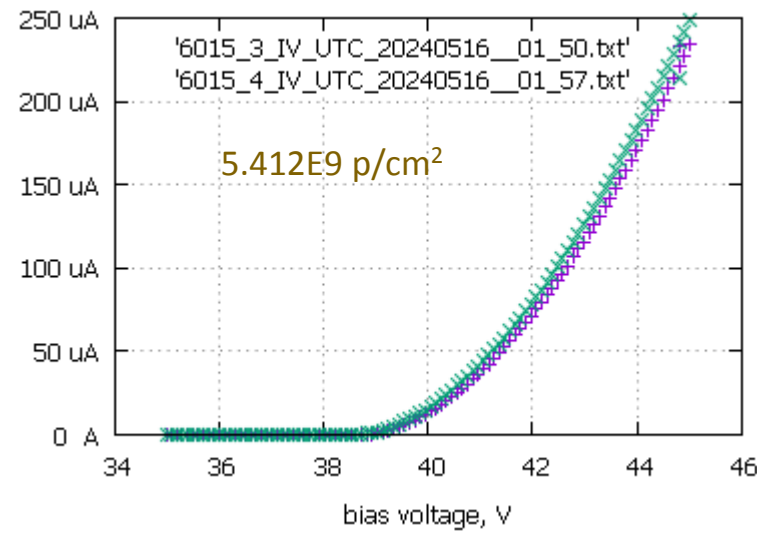
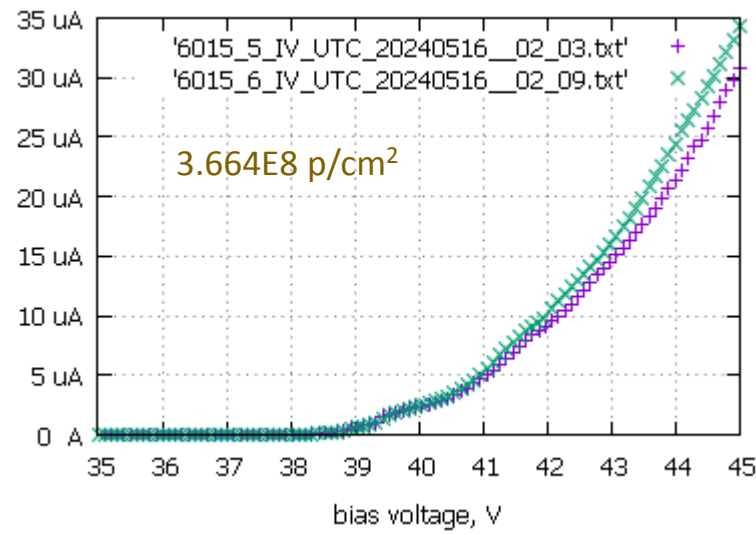


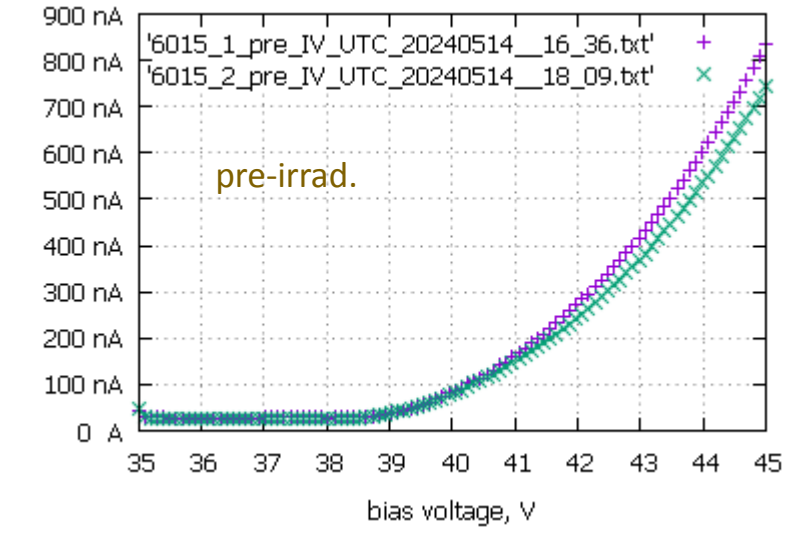
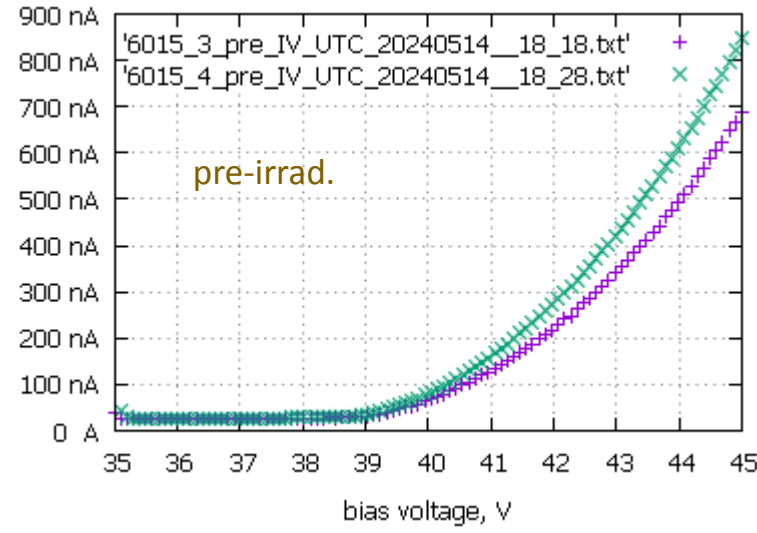
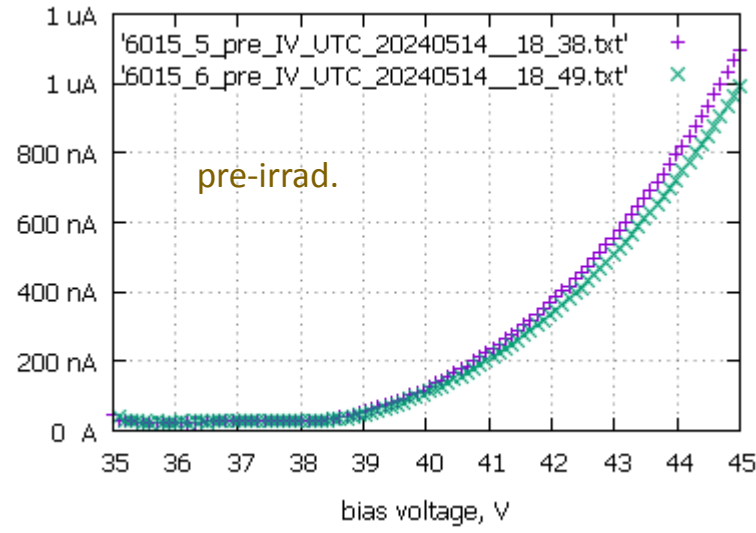
some results from UC Davis rad test 5/14/2024 – six S14160-6015PS, data from Justin Frantz



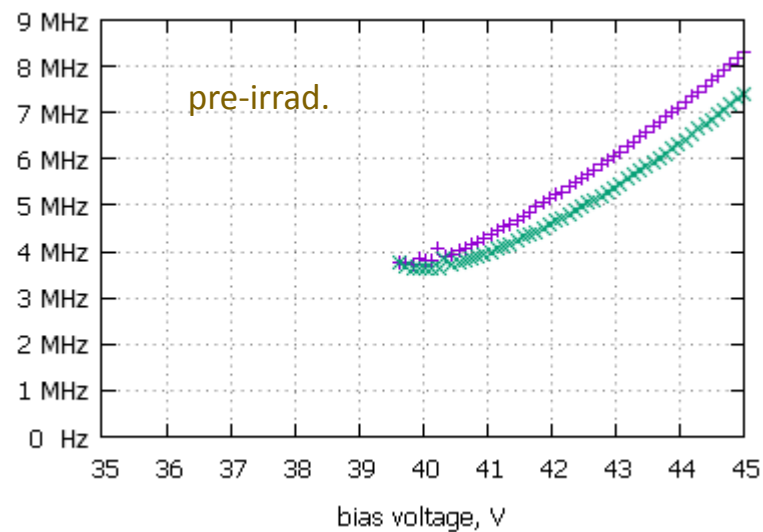
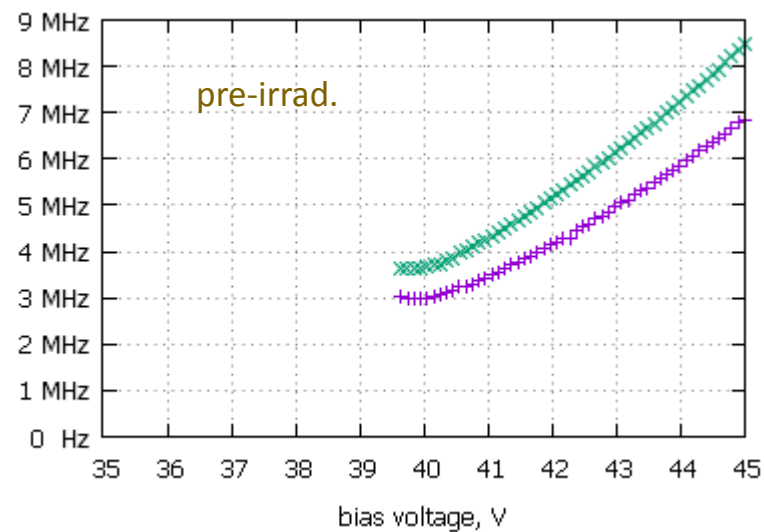
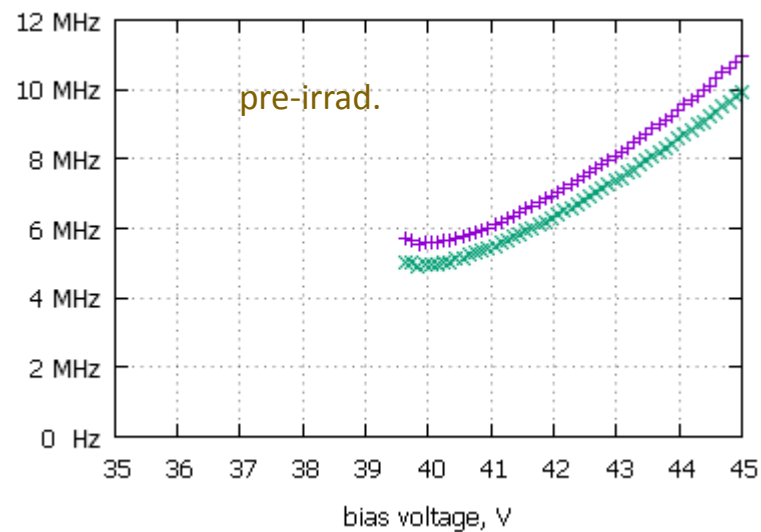
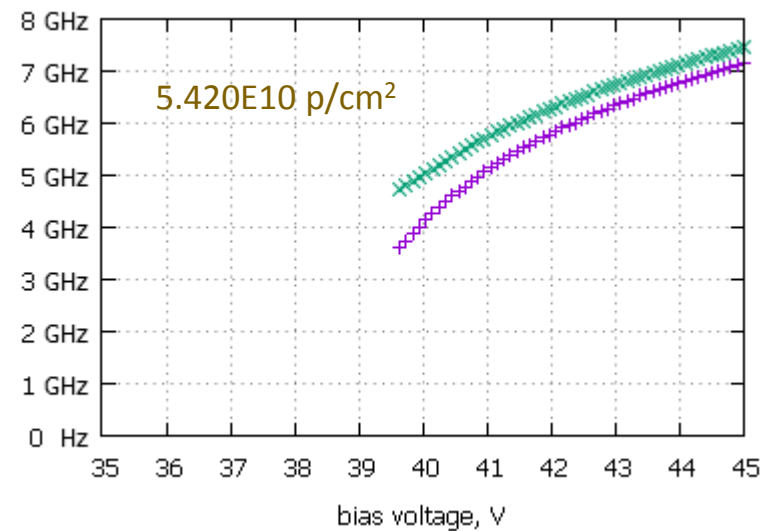
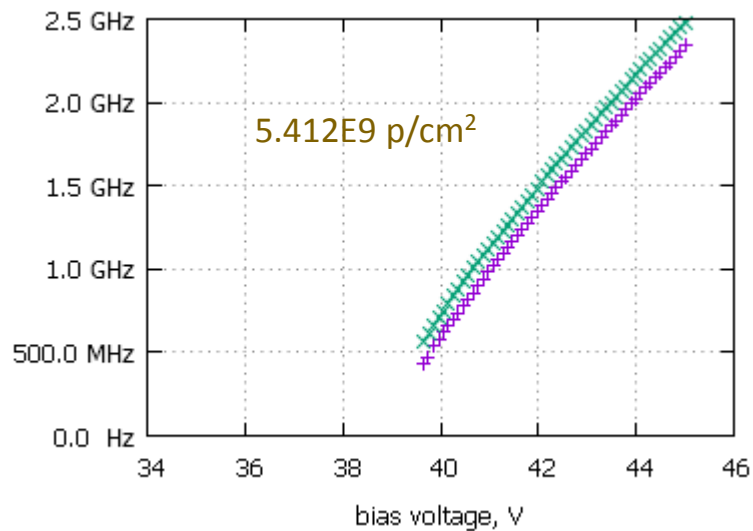
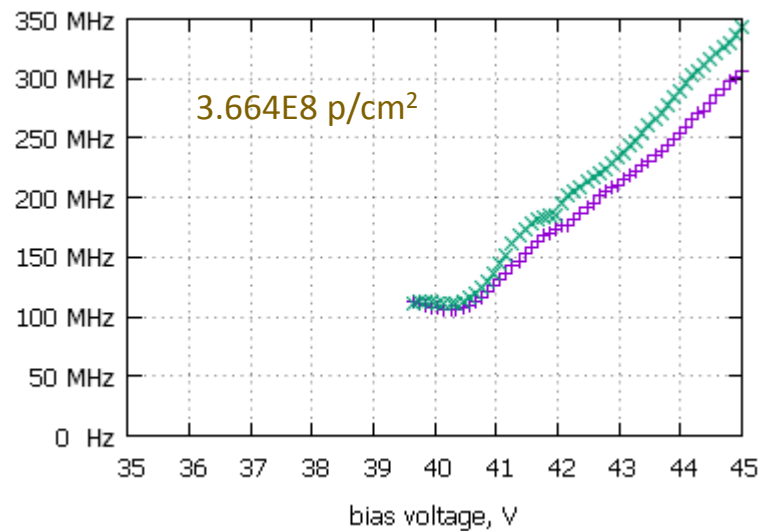
64.0 MeV protons.
 Quoted fluences from UC Davis equipment / experts, on center.
 May be -2.5% according to actual SiPM position.

With higher damage level, dark current becomes **more linear** in overvoltage?
 Surprised me – **is this understood??**

$V_{BR} \sim 38.5 - 38.7$ V in all six cases (rough eyeball estimated from \sqrt{I} vs V plots, not shown here)



Dark count rates computed with a simple assumption of $V_{BR} = 38.6 \text{ V}$ ($DCR = I_{dark}/(C_{cell}*(V-V_{BR}))$)



summary (at "standard" 4 V overvoltage, a likely enough choice)

