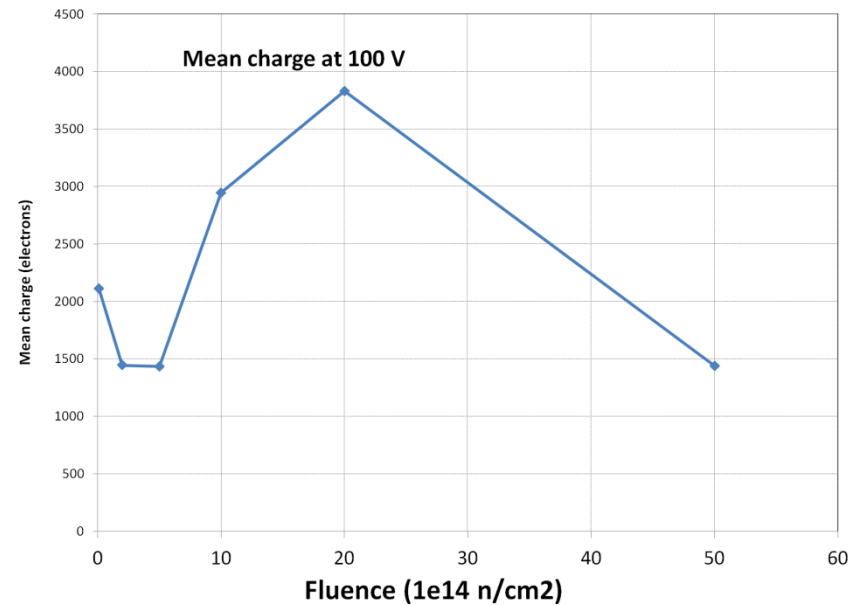
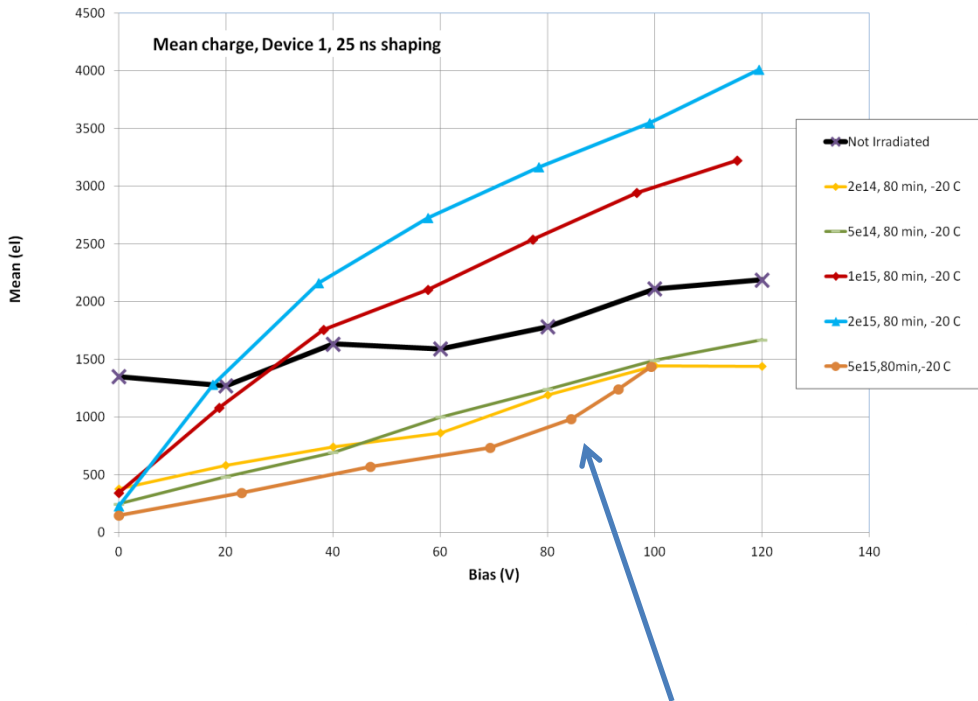


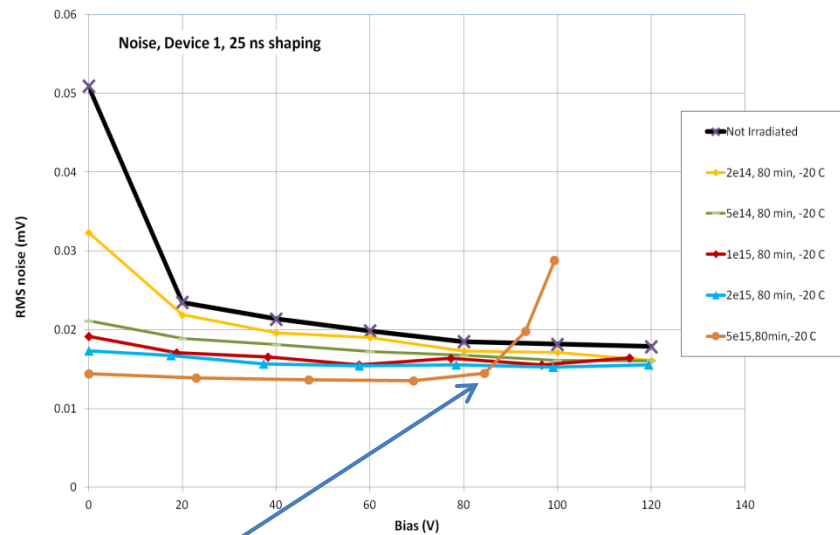
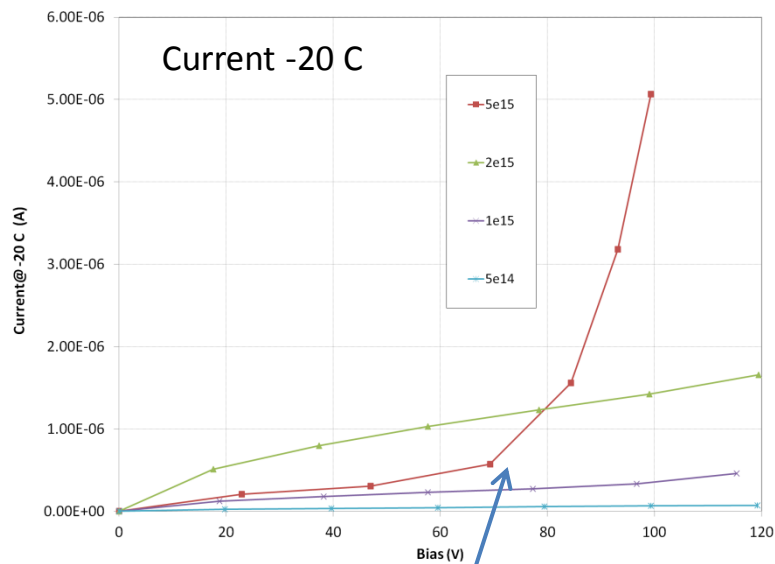
# An update on charge collection measurements with CHESS-1 chip

I. Mandić et al.,  
Jožef Stefan Institute, Ljubljana, Slovenia

## Sr-90 electrons, mean charge, 25 ns shaping



- large drop of collected charge after 5e15 n/cm<sup>2</sup>
  - initial acceptor removal finished
  - depleted region narrows because of radiation induced defects



- large increase of current and noise above 80 V after 5e15  
→ charge multiplication (breakdown)