



Lit: M. Stockner thesis

"[http://cern.ch/blm/Talks\\_and\\_papers/stockner/thesis\\_mstockner\\_cern\\_11\\_2007.pdf](http://cern.ch/blm/Talks_and_papers/stockner/thesis_mstockner_cern_11_2007.pdf)"

Charge to dose conversion factor:  $Q_D := 53 \frac{\mu\text{C}}{\text{Gy}}$

Onset of saturation (charge):  $Q_{\text{saturation}} := 0.16 \mu\text{C}$

Onset of saturation (dose):  $D_{\text{saturation}} := \frac{Q_{\text{saturation}}}{Q_D} = 3.019 \times 10^{-3} \cdot \text{Gy}$

Dose rate (40 us):  $D_{\text{saturation}_{40\mu\text{s}}} := \frac{D_{\text{saturation}}}{40 \mu\text{s}} = 75.472 \frac{\text{Gy}}{\text{s}}$

Dose rate (1.3s):  $D_{\text{saturation}_{1.3\text{s}}} := \frac{D_{\text{saturation}}}{1.3\text{s}} = 2.322 \times 10^{-3} \frac{\text{Gy}}{\text{s}}$