- Uncertainty in current :

$$V = IR$$

$$I = \frac{V}{R} \qquad \Delta V = \pm 1$$

$$\Delta R = 0.05$$

$$\Rightarrow \Delta I = \frac{R\,\Delta V + V\,\Delta R}{R^2}$$

according to voltage calculation for

$R_{T_{II}}$ $V = 165$ $R = 550\ k\Omega$

$$\Rightarrow \Delta I = \frac{550 \times 10^6 \times 10 - 10^3 \times 0.05\,(0.55 \times 10^6)}{(550 \times 10^6)^2}$$

$$\Delta I = 1.8 \times 10^{-8} \text{ amp.}$$

$$\Rightarrow I = 262.3 \times 10^{-6} \pm 1.8 \times 10^{-8}$$