$O^{7+} \xrightarrow[(2)]{2e^-} O^{5+}(nl\,n'l') \xrightarrow{h\nu} O^{5+}(1s^2 2s)$

$O^{7+} \longrightarrow O^{6+}(nl)$

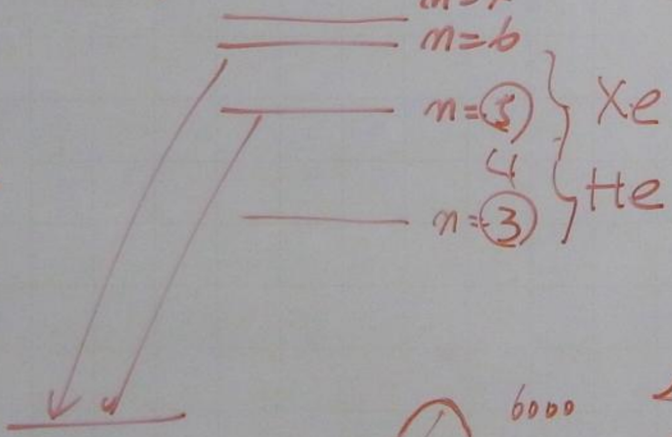
(3) 2 photon [illegible]

$O^{7}(2s)$

(1) metastable

~ ms

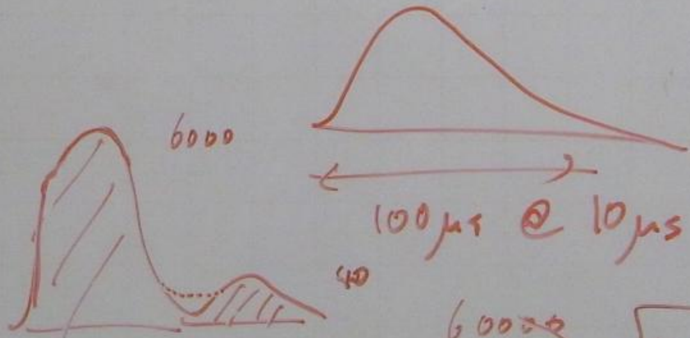
μs



$O^{6+}(2s\,nl)$ $O^{6+}(1s^2)$

$\downarrow e^-$ → O^{7+}

$\searrow h\nu$ → O^{6+}

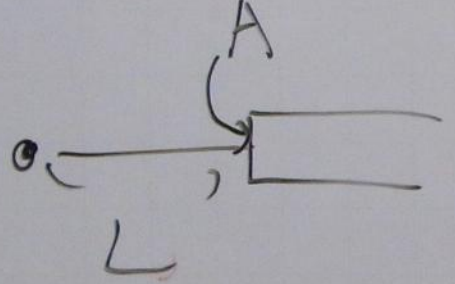


100μs @ 10μs 10^5 cps

$\frac{6000}{600\,s}$ 100 cps 250 mm = L

30 mm^2

Si	TES
100 cps	0,02
10^5 cps	20



$L = 250$ mm

$a = 30$ mm²

TES $0{,}2$ mm

$L = 400$ mm

$A = 0{,}01$

$$\frac{A}{4\pi L^2} = \frac{0{,}3\times10^{-3}}{4\pi\left(\frac{1}{2}\right)^2} \simeq 2\times10^{-4}$$

Scal factor

$$= \frac{}{3{,}14}$$