

Time (min)	L	B/B <sub>0</sub>	>394MeV	>395MeV	>396MeV	>397MeV	>398MeV	>399MeV	TOTAL RADS
5	1.44168	2.14962	3.679E+00 (0.00003rad)	3.632E+00 (0.00003rad)	3.585E+00 (0.00002rad)	3.539E+00 (0.00002rad)	3.494E+00 (0.00002rad)	3.449E+00 (0.00002rad)	0.00014rad
6	1.51254	2.50334	2.984E+00 (0.00002rad)	2.941E+00 (0.00002rad)	2.898E+00 (0.00002rad)	2.856E+00 (0.00002rad)	2.815E+00 (0.00002rad)	2.774E+00 (0.00002rad)	0.00012rad
7	1.62236	2.90373	1.869E+00 (0.00001rad)	1.837E+00 (0.00001rad)	1.806E+00 (0.00001rad)	1.776E+00 (0.00001rad)	1.746E+00 (0.00001rad)	1.716E+00 (0.00001rad)	0.00006rad
<b>TOTALS</b>									<b>0.00032rad</b>

### Depth dose Calculations

$$(\text{Protons/cm}^2/\text{s}) * (100^2 \text{cm}^2) * (3600 \text{s/hr}) = \text{Protons/m}^2/\text{hr}$$

$$(\text{Protons/m}^2/\text{hr}) * 0.11 \text{m}^2 = \text{Protons/hr}$$

$$\text{Protons/hr} * (E \text{ MeV/Proton}) = E \text{ MeV/hr}$$

$$(E \text{ MeV/hr}) * (1.6 * 10^{-13} / \text{MeV}) = \text{Joules/hr}$$

$$(\text{Joules/hr}) / 60 \text{kg} = \text{Gray/hr}$$

$$(\text{Gray/hr}) * 100 \text{rad/hr} = \text{rad/hr}$$

$$\text{Rad/hr} * 1/60 = \text{rad/min}$$