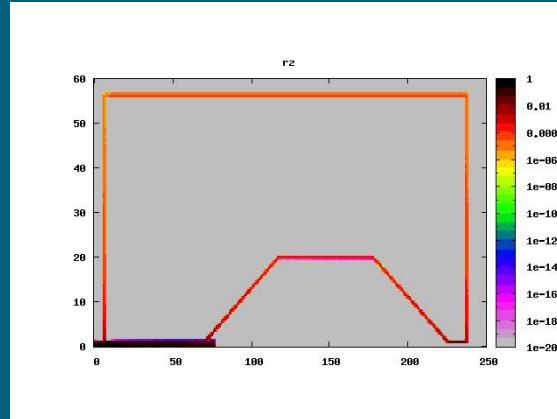


energy deposition in integrated target-horn apparatus

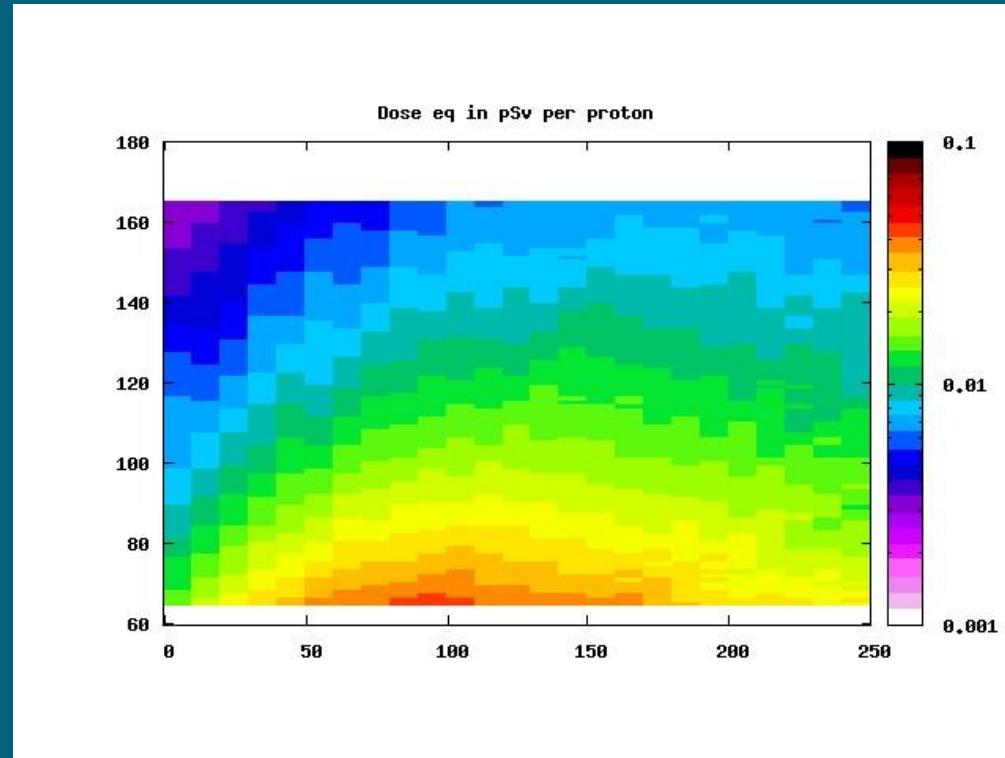
simulation characteristics:



- $E_p = 4.5 \text{ GeV}$, $P = 1.3 \text{ MW}$, $\sigma_b = 4\text{mm}$, stats 10^5 protons

I_{horn}	Target (kW)	Target (%)	Total (kW)
No B	63.3	88.6	71.4
350 kA, π^+	68.6	88.4	77.6 (+8.6)
-350 kA, π^-	66.4	90.2	73.6 (+3.6%)

dose equivalent in pSv/proton around the integrated target-horn apparatus:



future:

define the super beam layout and study:

- the energy deposition on:
 - ✓ shielding elements -> ventilation (?)
 - ✓ electrical connections
- dose equivalent rate from the induced radioactivity