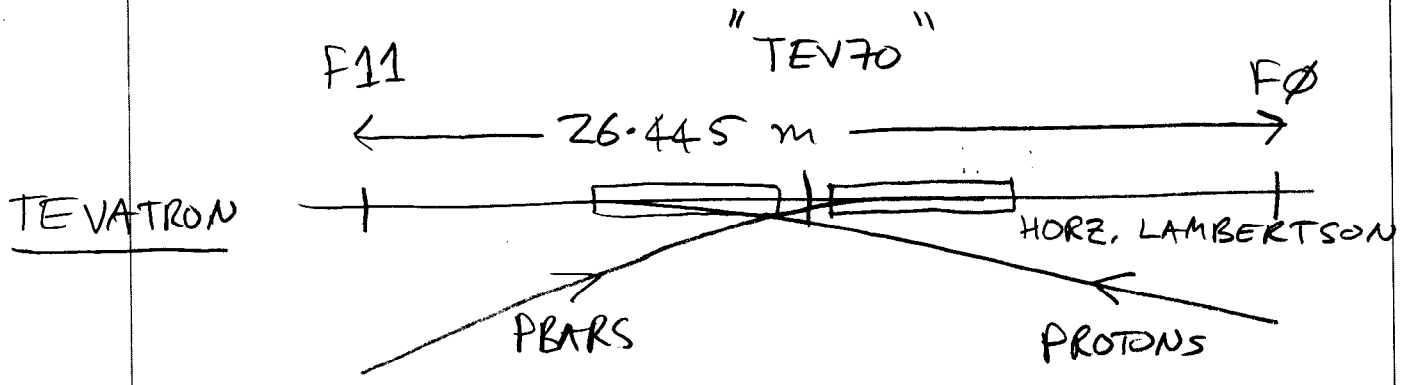
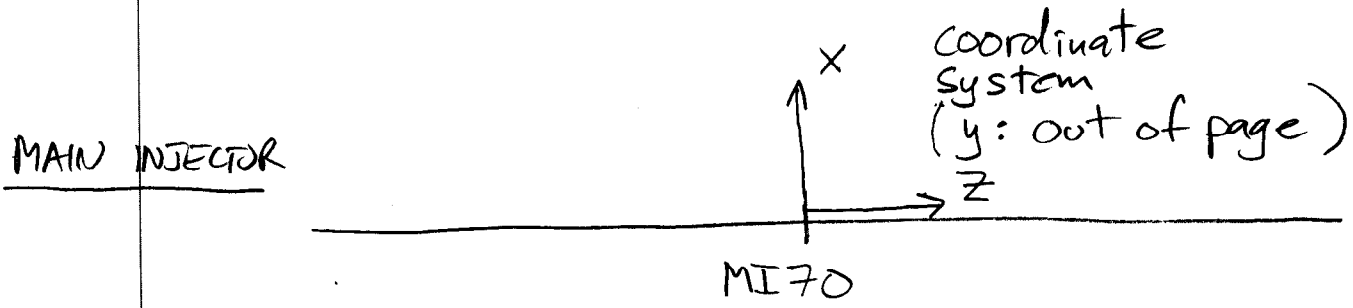
LOCATION OF MAIN INJECTOR RELATIVE TO TEVATRON

Feb 5 '91
S. Peggs





Relative to MI70 coordinate system,

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix}[\text{TEV70}] = \begin{pmatrix} 11.823 \\ 2.332 \\ 0.0 \end{pmatrix} \text{ meters}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix}[\text{F11}] = \begin{pmatrix} 11.823 \\ 2.332 \\ -13.222 \end{pmatrix} \text{ meters}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix}[\text{FØ}] = \begin{pmatrix} 11.823 \\ 2.332 \\ 13.222 \end{pmatrix} \text{ meters}$$

<u>CAVEAT</u>: Not taken into account are displacements in Lambertsons (which could be dead reckoned), kicker angles (negligible) and quadrupole bending (negligible)