RELATIVE
\( \bar{p} \) YIELD FROM TUNGSTEN,
COPPER AND ALUMINUM TARGETS

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Figure 1 shows the calibrated \( \bar{p} \) yields for 3 different target materials, vs \( \beta_{\text{min}} \) (aspect ratio at the target outer) The calibration was done using the technique described in p note 449. The ratio of the yields at the TeV I design operating point, for a 20\( \pi \) acceptance, is \( W:Cu:Al = 1:0.80:0.37 \).

Fig. 2 is a xerox of a hardcopy of data from the last commissioning run; it shows a scan of ISPECW (proportional to the circulating beam in the Debuncher, and hence the \( p \) yield into a fixed acceptance) vs. the height of the target stack. The target height correlates with different target materials, as the labelling on top indicates Averaging over the discs of various materials, we find for the experimental relative yields.

\[ W:Cu:Al = 1:0.93:0.41 \]