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B Line vertical beam size at the B target

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AGS STUDIES REPORT

DateMay 31, 1983		Time	2300 - 2330			
Experimenters _	J.W. Glenn					• .
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OBSERVATIONS AND CONCLUSION

The proton beam was scanned vertically across the B target to measure the beam's size. The fraction of beam on the target was deduced from the B telescope normalized by the B SEC on an arbitrary scale. A few measurements of the beam position as seen on the TV was made as a consistency check. The vertical extent of the target is 40 mills. Figure 1 shows the data.

As the telescope rises to full rate in a change of 1400h on BP471 and the target size is covered by a 3400h change, the beam is implied to be 16.5 ± 1 mills in vertical size (FW ~ 90% area). That the 3400h change implies a 45 mill target from the crude position checks assures that the beam is smaller than the target and gives confidence in the result.

