

AGS STUDIES REPORTDate May 31, 1983Time 2300 - 2330Experimenters J.W. GlennReported by J.W. GlennSubject B Line Vertical Beam Size at the B TargetOBSERVATIONS 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  $16.5 \pm 1$  mills in vertical size (FW  $\sim 90\%$  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.

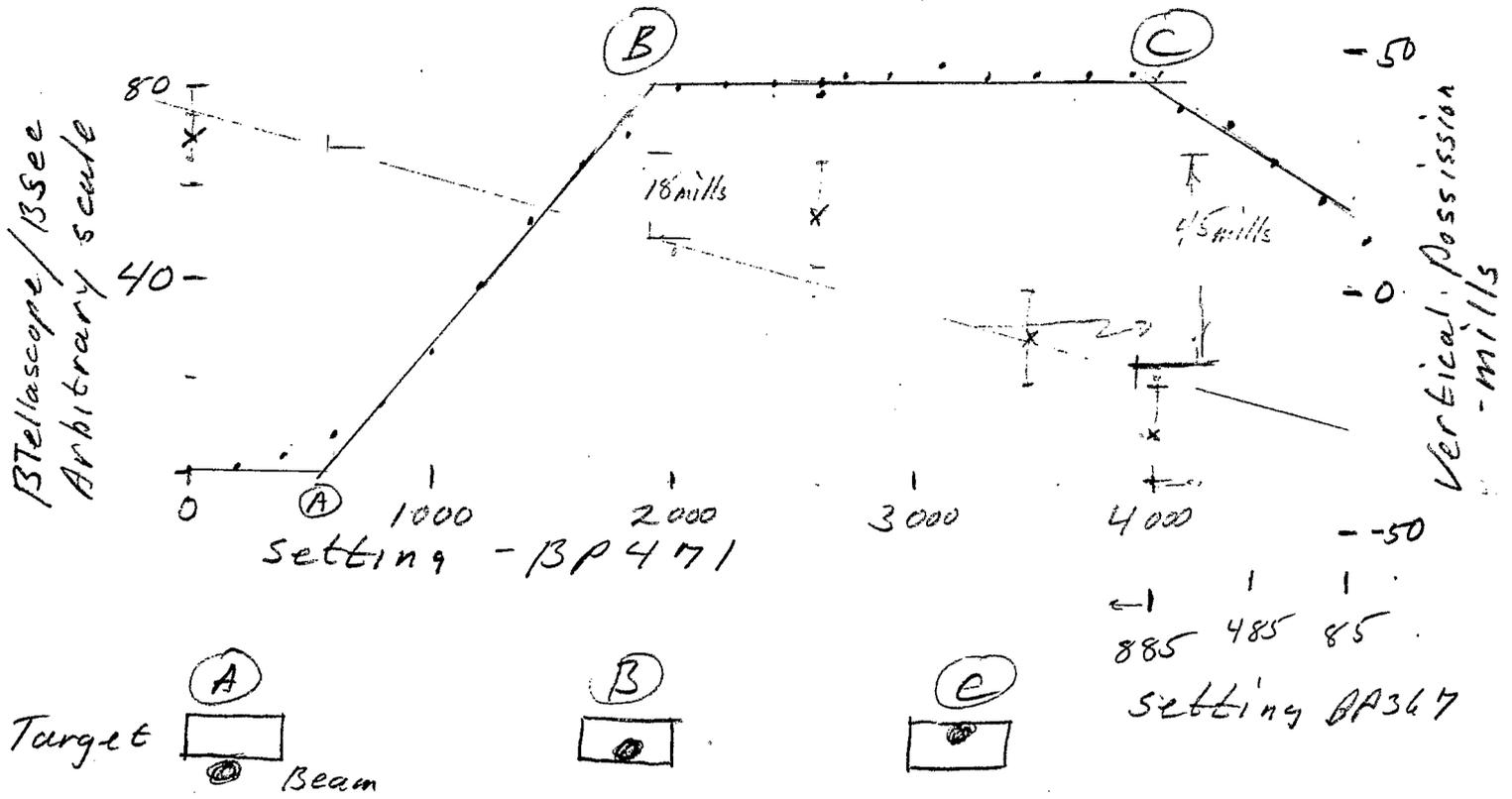


Fig 1 B Line Beam Size Measurement