BNL-104026-2014-TECH

AGS.SN148;BNL-104026-2014-IR

B Line vertical beam size at the B target

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May 1983

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U.S. Department of Energy

USDOE Office of Science (SC)

DISCLAIMER

Number 148

AGS STUDIES REPORT

Date May 31, 1983 Time 2300 - 2330

Experimenters J.W. Glenn

Reported by J.W. Glenn

Subject B Line Vertical Beam Size at the B Target

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.

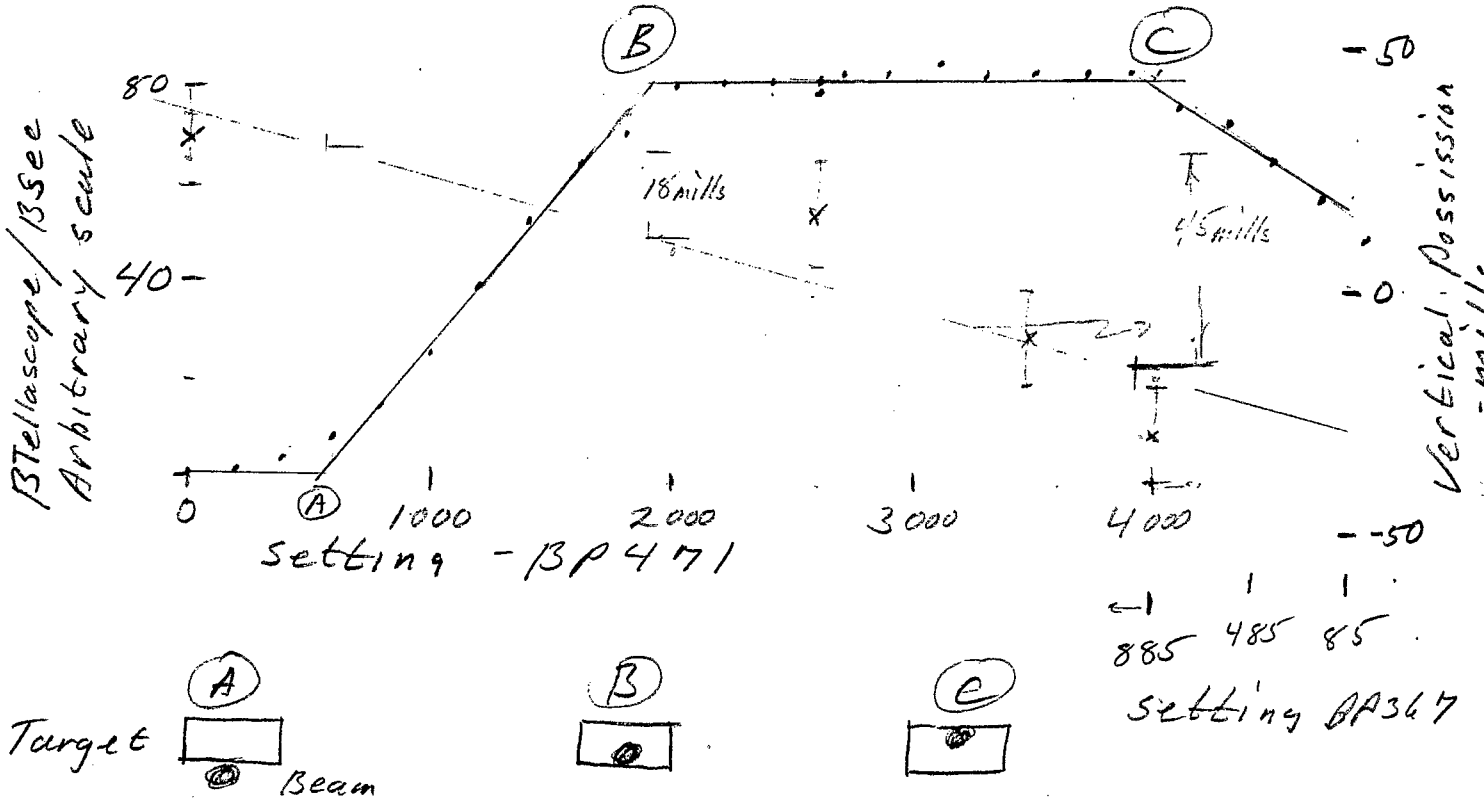

Fig 1 B Line Beam Size Mesurment