



BNL-103997-2014-TECH

AGS.SN119;BNL-103997-2014-IR

F5 Vertical Aperture Investigation

J. W. Glenn

February 1979

Collider Accelerator Department
Brookhaven National Laboratory

U.S. Department of Energy

USDOE Office of Science (SC)

Notice: This technical note has been authored by employees of Brookhaven Science Associates, LLC under Contract No.DE-AC02-76CH00016 with the U.S. Department of Energy. The publisher by accepting the technical note for publication acknowledges that the United States Government retains a non-exclusive, paid-up, irrevocable, world-wide license to publish or reproduce the published form of this technical note, or allow others to do so, for United States Government purposes.

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or any third party's use or the results of such use of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

2/22/79 ~ 1600 AGS STUDIES REPORT NUMBER 119
Date 3.13/79 Time 1130-1230 Experimenters J.W. Glenn
Subject F5 Vertical Aperture Investigation

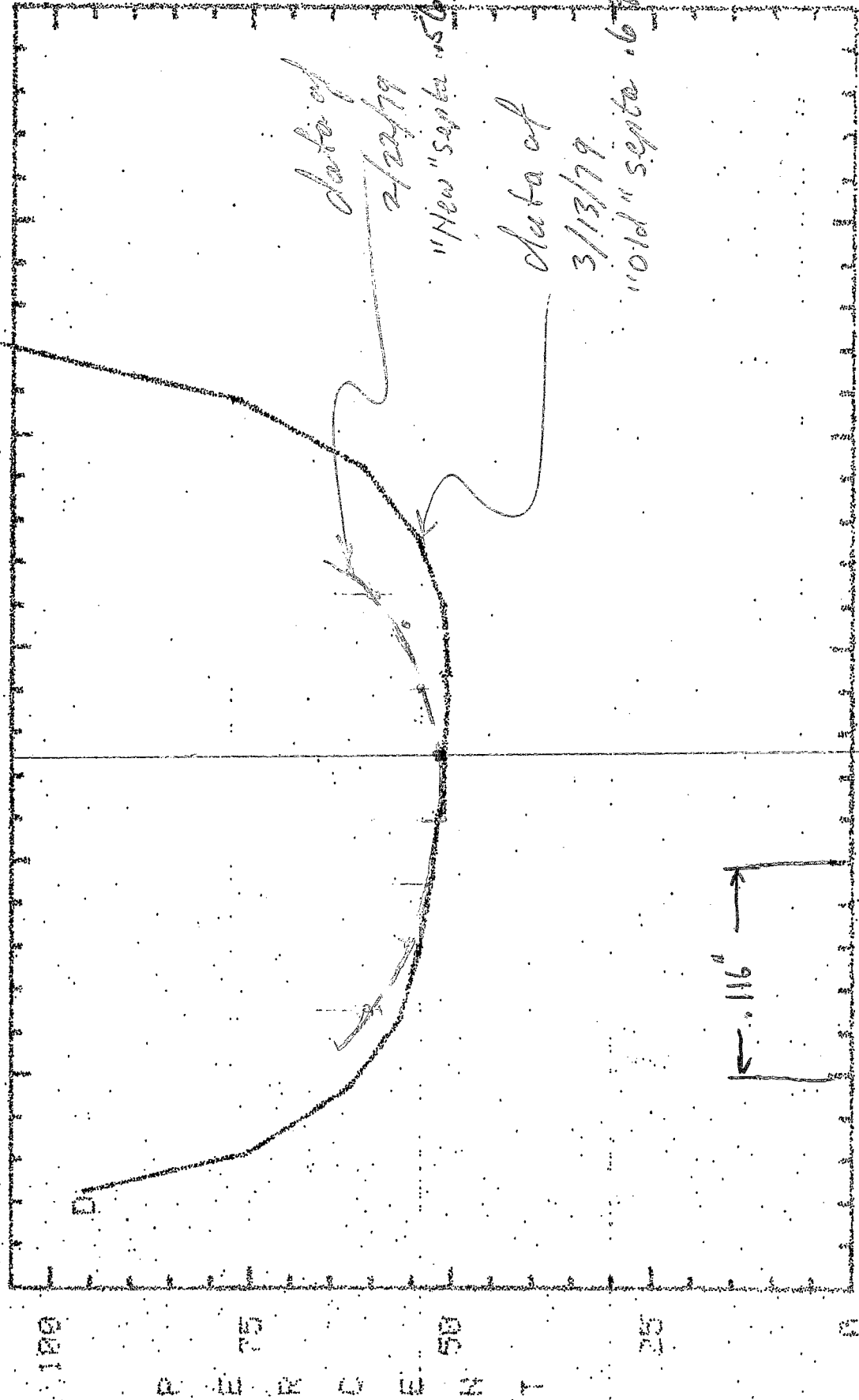
OBSERVATIONS AND CONCLUSION

The Extracted beam was scanned vertically at F5 using the I10 vertical bump. The motion was calibrated at $\sim .058$ in./1000 count change to I10 VB. F5 losses (normalized to the internal beam) were noted. The data of 2/22 were "eyeball" averages. The data of 3/13 are 5 pulse averages. The magnet in use on 3/13 had a clear vertical steel aperture of 0.69 in., the magnet of 2/22 had the same steel aperture, but cooling tubes and clips reduced it to 0.56 in. Both curves are plotted for comparison.

VERT SCAN OF BEAM IN F5 A
13-MAR-79 12:04:08.2
TEST VAR #HONE AUG= 5

YD:FSL = 0.000, 100 = 20.000

F5L



* -50 00 -39.99 -10.00 10.00 30.00 50.00
11016 X 100 PLOTS WHEN ABS(OLD-NEW) > .6