



Brookhaven
National Laboratory

BNL-103904-2014-TECH

AGS.SN23;BNL-103904-2014-IR

Horizontal Beam Size at F20 for Entire Accel. Cycle

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May 1973

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U.S. Department of Energy

USDOE Office of Science (SC)

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Horizontal Beam Size Measurement (data 5/8/73)

Measurements of the horizontal beam size were made for the entire beam cycle.

Conditions:

- 1) Horizontal targets at F-20 (PAV)
- 2) Beam intensity $\sim 4 \times 10^{12}$ p/p
- 3) Vacuum $\sim 10^{-6}$ Torr overall

Comments:

- 1) Intensity variations during measurement were larger than for vertical measurements.
- 2) Size of beam at injection is larger than before conversion by $3/2$
- 3) Final ^(H.E.) size of beam is larger than before conversion by about $1.4/1$
- 4) Overall damping in size is approx $5/1$ while $\sqrt{\frac{P_1}{P_2}} = 7/1$.

J. Blumberg
5/10/73

