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Horizontal Beam Size Measurement at F20

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POINT OUT TO JOHN H. OUR EXPERIENCE THAT H.E. BEAM SIZE IS STRONGLY DEPENDENT ON MACKINE CONDITIONS.



Horizoital Brain Size Measure ments (data of 4/1/74) Measurements of horizontal brain mye were made by intercepting 5% of the beam with horizon tally flipped aluminum targets.

Conditions

1) Horizontal targets at F-20 (BAV)

21 Bean intensity 5.5 to 6 x 10" P/P

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3) Horage ring vacuum ~ 3+10-7 Tour police plates to the existing on 3/4/14 when Voice was measured. Cagan distagrant

1) Initial measurements shown on accompanying graph o

> 2/VHorizontal size at Fro = 0.68" (~ 1.7 cm at par > 2/cm at prox)

3) L.E. horizontal size = 2.2" (~5.5 cm at BAV > 6.8 cm at pmay)

4) Overall damping ratio $\approx \frac{2.2}{1.60} = 3.2/10$

5) H.E. beaux is larger than measurement made previously (see 5/10/73 data, which was made at 4×10' P/P)

6) L.E. beam is smaller their measurement made previously (see 5/10/73 dots), 2.2 in ches compared with 2,9 indes.

> Jefferen 3/8/74

This is larger than we see at 410 flog, which is bothern four and Brook. We see a 2" with well befored AGS.

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