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# G-10 90ø MONITOR TELESCOPE

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January 1972

Collider Accelerator Department Brookhaven National Laboratory

## **U.S. Department of Energy**

USDOE Office of Science (SC)

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#### AGS DIVISION TECHNICAL NOTE

#### <u>No. 89</u>

### J. Guthy and G.W. Bennett January 14, 1972

## G-10 90° MONITOR TELESCOPE

This note updates and supplements AGS Tech Note No. 73 dated February 18, 1970.

The present electronics configuration is shown in Fig. 1. The multiplexer outputs are sent to the Main Control Room and to the Target Desk where it is further multiplexed for distribution to experimenters.

The current performance of the monitor, using the G-10 target in Fig. 2, is contained in the table; monitor counts are normalized to  $10^{12}$  protons circulating. These data were taken after G-10 targeting efficiency had been optimized using a variety of indicators in the Main Control Room, and after a previous mylar foil run which showed the beam centerline at the target to be within .007 in. of the target height.

Signal	Counts/10 <sup>12</sup> protons
Triples A + B A + C B + C A B C	$ \begin{array}{r} 1430 \pm 2\% \\ 1690 \\ 1710 \\ 1910 \\ 3820 \\ 3770 \\ 3290 \\ \end{array} $
HVA = 1.768 kV HVB = 2.081 kV HVC = 1.860 kV	

This monitor is calibrated periodically and any significant deviations in performance will be published.

Distr: Department Administration AGS Division Staff EP&S Division Staff AGS Experimenters



Fig 1

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