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SEC Calibrations

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Experimenter(s) J.W. Glenn

Reported by J.W. Glenn

Subject(s) SEC "Calibrations"

Observations and Conclusion

An approximate calibration of the ABC and C3 SEC's was obtained using the internal beam monitor and loss monitors. Approximately 1×10^{12} and 4×10^{12} protons per pulse was delivered to each target station separately and the losses and SEC responses noted. The sum of loss monitors was generally less than 10% of the total beam accelerated and their calibration is known to better than 25%. Thus, the SEC calibrations should be better than 5%. The exception is the C3 SEC where loss monitor coverage is less complete and beam hitting the C target further complicates the calibration.

A similar test was made in January, 1984. The A and C3 SEC's show significant changes since then.

Beam	Present Response Normalized to January Response	New Calibration protons x 10^9/count
A	42%	0.477
B	78%	1.208
C	98%	1.29
C'	200%	0.491

mvh

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