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FEB Intensity Measurements with Foils, Transformers

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U.S. Department of Energy

USDOE Office of Science (SC)

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BROOKHAVEN NATIONAL LABORATORY
 MEMORANDUM

DATE: May 12, 1975

TO: D. C. Rahm - 510C
 FROM: J. B. Cumming *JBC*
 SUBJECT: Measurements of AGS FEB Fluxes
 with Current Transformers and Foils

The table below summarizes the results of measurements made 4/25/75 and 5/6/75 in the FEB.

Run	Flux (^{11}C)	Flux (^{24}Na)	Flux (CT)	(CT/ ^{11}C)	(CT/ ^{24}Na)
501	7.95×10^{12}	8.20×10^{12}	9.08×10^{12}	1.142	1.108
502	3.67×10^{12}	3.73×10^{12}	3.96×10^{12}	1.079	1.062
503	- - -	$8.42 \times 10^{12*}$	8.76×10^{12}	- - -	1.041* <i>omit</i>
504	5.30×10^{13}	5.06×10^{13}	5.49×10^{13}	1.036	1.084
505	5.22×10^{13}	5.02×10^{13}	5.43×10^{13}	1.040	1.082
506	3.50×10^{12}	3.51×10^{12}	3.87×10^{12}	1.106	1.104
507	5.06×10^{12}	5.02×10^{12}	5.42×10^{12}	<u>1.071</u>	<u>1.081</u>
Average				1.079	1.080 <i>1.087</i>
				<i>S.D. = 1.040</i>	<i>= ± 1.017</i>

* From a thicker target where secondary particles may raise the flux as measured by ^{24}Na production.

JBC:bw

cc: J. W. Glenn III - 911A