

Abstract Submitted
for the DNP08 Meeting of
The American Physical Society

Calibration of a superconducting beta spectrometer using ^{66}Ga ¹

GREGORY SEVERIN, LYNN KNUTSON, University of Wisconsin-Madison, ELIZABETH GEORGE, PAUL VOYTAS, Wittenberg University, SEAN COTTER, University of Wisconsin-Madison — We have constructed a new superconducting Wu spectrometer with roughly 1sr. acceptance and 2% FWHM momentum resolution. The spectrometer measures the energy deposited into a 4MeV thick Si(Li) detector by betas that have been magnetically selected for their momentum. This simultaneous measurement of both momentum and energy deposition allows scattering effects to be accounted for, and provides an opportunity to compare data to Monte-Carlo simulations. These comparisons have been performed with both ^{207}Bi and ^{66}Ga , and the ^{66}Ga results will be presented.

¹NSF Grant -PHY0555649

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Date submitted: 30 Jun 2008

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