

Abstract Submitted  
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**Sample Preparation and Gamma-Assay Measurements at the Low-Background Counting Facility at the Kimballton Underground Research Facility**<sup>1</sup> JACQUELINE STRAIN, PADRAIC FINNERTY, GRAHAM GIOVANETTI, REYCO HENNING, ALEX LONG, SEAN MACMULLIN, KEVIN MACON, JOHN WILKERSON, University of North Carolina at Chapel Hill and Triangle Universities Nuclear Laboratory (TUNL), HENNING BACK, North Carolina State University, RICHARD LINDSTROM, National Institute of Standard and Technology, STEVEN DEREK ROUNTREE, BRUCE VOGELAAR, Virginia Polytechnic Institute and State University — The KURF (Kimballton Underground Research Facility) is home to a gamma counting facility, consisting of two HPGe (high purity germanium) detectors specifically designed for low background assay work. We will discuss the techniques and sample preparation done for gamma-assay at this facility. Specifically we will discuss the gamma-assay measurements done for Axon PicoCoax cable which is a possible candidate for the MAJORANA DEMONSTRATOR. We will also discuss the gamma-assay measurements for lead bricks from Sullivan lead that are to be used for shielding in MALBEK (The MAJORANA Low Background BEGe Detector at KURF) and the proposed MAJORANA experiment.

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