Performance of the X-ARRAY at ANL[1] A.Y. DEO, U. Massachusetts Lowell, C.J. LISTER, Argonne National Lab., P. CHOWDHURY, U. Massachusetts Lowell, F.G. KONDEV, P.F. BERTONE, K. TEH, Argonne National Lab., S. LAKSHMI, U. Massachusetts Lowell, G.J. LANE, Australian National Univ., E. MCCUTCHAN, C. NAIR, D. SEWERYNIAK, Argonne National Lab., M.L. SMITH, Australian National Univ., S. ZHU, Argonne National Lab. — The X-ARRAY is a versatile and efficient HpGe array consisting of a Eurisys Superclover made of four 70 mm diameter n-type germanium crystals and and 4 regular clover detectors based on 60 mm technology. Both the array and its electronics are compact and can be easily moved. It has been used extensively at the Argonne Fragment Mass Analyzer (FMA) and will be an integral part of the CARIBU decay station for beta-gamma spectroscopy of neutron-rich nuclei. In order to process signals from the array, a CAMAC-based data acquisition system, SCARLET, is used. The overall performance of the array and SCARLET will be discussed.

Partha Chowdhury
U. Massachusetts Lowell

Date submitted: 01 Jul 2011   Electronic form version 1.4