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A new gamma-ray facility at HIGS: The Clover array[1] U. FRIMAN-GAYER, A.D. AYANGEAKAA, R.V.F. JANSSENS, X.K.-H. JAMES, S.R. JOHNSON, University of North Carolina at Chapel Hill/TUNL, M EMAMIAN, S. FINCH, TUNL, M.P. CARPENTER, Argonne National Laboratory , J ISAAK, Institut fr Kernphysik, Technische Universitt Darmstadt, D. SAVRAN, GSI Helmholtzzentrum fr Schwerionenforschung, B. LOEHER, Institut fr Kernphysik, Technische Universitt Darmstadt and GSI Helmholtzzentrum fr Schwerionenforschung, O. PAPST, Institut fr Kernphysik, Technische Universitt Darmstadt — A new gamma-ray facility has recently been commissioned at the HIGS facility at TUNL. The clover array is composed of 8 HPGe detectors of the clover type as well as of 12 $CeBr_3$ scintillators. The facility is expandable to 12 clover systems, and can also accommodate other scintillators as well as other types of detectors as needed. This setup is designed to enable multi-parameter coincidence measurements and will have sub-nanosecond timing capabilities. It will also take full advantage of the increased gamma-ray fluxes which have recently become available at HIGS. Digital electronics is used for signal processing. The facility has been successfully commissioned very recently in a nuclear resonance fluorescence measurement. The performance of the full array will be discussed based on the data from this first experiment.

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