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The Digital Data Acquisition System for SeGA at the NSCL¹ C. VAMAN, T. GLASMACHER, K. STAROSTA, P. MANTICA, NSCL, Michigan State University — At the National Superconducting Cyclotron Laboratory (NSCL) the work for implementation of a ~664 channel Digital Data Acquisition System (DDAS) for the Segmented Germanium Array (SeGA) detectors, was started. The most significant gain in performance for SeGA can be achieved with implementation of gamma-ray tracking and resulting identification of the position of the first gamma-ray interaction. The identification of the first gamma-ray interaction position for in-beam experiments results in reduced Doppler broadening of gamma-ray peaks and improved experimental sensitivity. For these improvements to be possible, digitization of the data from the Ge detectors has to be digitized right after preamplification and processed in real time. The talk will present some of the technical solutions and the current status of the project.

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Prefer Oral Session
 Prefer Poster Session

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