

A highly segmented and compact silicon array is currently being designed to complement the TIGRESS gamma-ray array (TRIUMF-ISAC Gamma-ray Escape-Suppressed Spectrometer) at ISAC2. The silicon array fits in the inner volume of TIGRESS and is expected to be used in both Coulomb excitation and transfer reaction experiments. Simulations using GEANT4 are underway to optimize its configuration. At present, the layout of the array consists in two boxes made of four dE-E telescopes in the forward angles and four E detectors in the backward angles. A CD detector covers the extreme backward angle. The philosophy behind the design and simulations of a few case-experiments will be presented. This work is supported by the US department of Energy through Grant/Contract No. DE-FG03-93ER40789.