Transfer reactions provide a powerful means of studying nuclear structure of interest to nuclear astrophysics and other applications. Their use with exotic beams of radioactive nuclei produces a number of challenges including the resolution one can obtain in such studies. A new detector combines the Oak Ridge Rutgers University Barrel Array (ORRUBA) with Gammasphere to simultaneously measure charged particles and $\gamma$ rays to solve many of these challenges. The configuration is named GODDESS (Gammasphere ORRUBA Dual Detectors for Structure Studies) and first data have now been obtained.