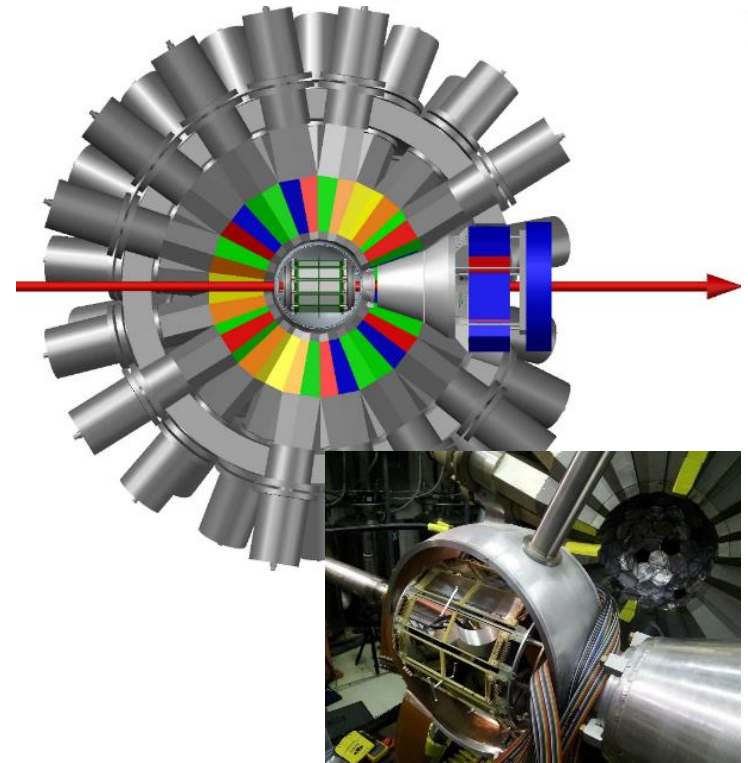


First use of GODDESS Detector



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 γ 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.



The ORRUBA array of silicon strip detectors is shown inside the Gammasphere detector. This configuration is known as GODDESS.

