

Nuclear Astrophysics with EMMA: a Glimpse into the Future of ISAC-II at TRIUMF

Abstract: EMMA, the ElectroMagnetic Mass Analyser, has recently been funded by the Canadian government and is expected to be on the floor of the experimental hall by 2009. This recoil mass spectrometer will be used to separate the recoils of nuclear reactions from the radioactive beams used to produce them, and to disperse the recoils according to their mass-to-charge ratios. EMMA will be needed in a wide range of nuclear physics experiments at the new ISAC-II facility. I will outline the spectrometer's capabilities and describe some plans for using EMMA to study nuclear astrophysics.