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Commissioning and initial operation of the EMMA recoil mass spectrometer

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The Electromagnetic Mass Analyser (EMMA) is a newly commissioned recoil mass spectrometer located at the ISAC-II facility of TRIUMF. EMMA is designed to separate the products of nuclear reactions from the unreacted beam, and disperse them according to their mass/charge (A/q) ratio onto detectors located at the focal plane. Utilizing EMMA thus allows for drastically increased sensitivity to study weak reaction channels in the presence of high background. The TIGRESS gamma-ray detector array has now been installed at the EMMA target location, ahead of EMMA's first experimental campaign that is due to commence during the current beam schedule. An overview of the facility will be presented, along with results from in-beam commissioning tests, and recent progress on coupling TIGRESS to EMMA. Details of some approved experiments to be performed during EMMA's first scientific campaign will also be presented.

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