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Status of the Texas A&M Radioactive-Beam Project

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The effort at the Texas A&M Cyclotron Institute to produce reaccelerated, radioactive beams is progressing. The K150 cyclotron in combination with ion guides will be used for the production of radioactive ions to be then charge-bred by an electron-cyclotron ion source (ECRIS) for acceleration to intermediate energies by the K500 cyclotron. The methods for tuning and detecting the radioactive beams as well as a new method for direct injection of the low-charge-state radioactive ions into the charge-breeding ECRIS will be presented.

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