

Abstract Submitted  
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**Isotope Production Capabilities at Texas A&M University Cyclotron Institute**<sup>1</sup> LAUREN MCINTOSH, SHERRY YENNELLO, Texas AM University — Radioisotopes for targeted alpha therapy are of increased interest of late at the Cyclotron Institute at Texas A&M University. Astatine-211 shows great promise for cancer treatment, and its chemistry is not very well understood. Current efforts focus on the development of bismuth targets for astatine-211 production via the  $\text{Bi-209}(\alpha,2n)\text{At-211}$  nuclear reaction, followed by a chemical separation of the astatine-211 from the bulk bismuth. Other alpha-emitting radionuclides may also be produced using heavy ion beams. The state of the program will be discussed.

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