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Radioactive beams at ISOLDE: Status and Developments

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The mission of the Target and Ion Source Development Team (TISD) at CERN-ISOLDE is to develop beams of new elements or shorter-lived isotopes. It is also to make sure that the current targets and ion sources operate with optimized settings and deliver high, pure and stable beams over time to the physics community. In this contribution, a report on the isotope yields of the uranium carbide targets produced from a new uranium oxide batch, will be given. In general, good and stable beam intensities that match and even surpass ISOLDE database values were obtained. A special focus will be given to online target nanomaterial prototypes tested over 2015 and 2014, namely a room temperature calcium oxide and various carbide-carbon nanocomposites. Furthermore, a short overview of the negative ion beams tests at ISOLDE will be given and also an update on the on-going beam development projects.

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