

ECR charge breeding at ISOLDE

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At ISOLDE, CERN, an online test bench is dedicated to radioactive ion charge breeding with the Daresbury Phoenix booster.

Two successful experiments have concluded the program of investigation of the performances of the booster undertaken in the frame of the IS397 proposal. The first one consisted in the trapping and charge breeding of ^{61}Fe daughter nuclides from the beta decay of ^{61}Mn . As a metallic element, Fe is a beam difficult to produce at ISOLDE. The second one consisted in the injection of a “cocktail” beam of isobars providing new information on the processes involved in the capture of the $1+$ beam.

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