New Target ion source system for short-lived neutron deficient alkali production.

Co-auteurs

P. Jardin, C. Michel, L. Maunoury

Résumé (moins de 1100 charactères)

Many facilities in the world have been using On-line Isotope Separation (ISOL) technique to produce radioactive ion beams. To deliver ion beam it is necessary to transform radioactive atoms produced in a solid target into ions using a "Target-Ion-Source-System" (TISS). During the atom-to-ion transformation process very short-lived radio nuclides disappear due to the time competition between the radioactive decay time and the atom-to-ion transformation time. It is possible to reduce these last losses by optimizing the parameters of the TISS. Our goal is to develop a new TISS to demonstrate how efficient it can be if it is optimized for the production of a specific short-lived radioactive element, and then how it is possible to get high intensity of radioactive ion beams if the low in-target production is compensated by a very efficient atom-to-ion transformation system.

Auteur principal: M. KUCHI, venkateswarlu (GANIL)

Co-auteurs: Dr MAUNOURY, Laurent (GANIL); M. JARDIN, Pascal (CNRS/GANIL)

Classification de Session: Poster