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Performances of the SPIRAL1 charge breeder

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In the framework of the SPIRAL1 upgrade under progress at the GANIL lab, the charge breeder based on a LPSC Phoenix ECRIS, first tested at ISOLDE [1] has been modified as to benefit of the last enhancements of this device from the $1+ / n+$ community [2].

Prior to its installation in the midst of the low energy beam line of the SPIRAL1 facility, it has been tested at the $1+/n+$ LPSC test bench to evaluate its performances and investigate the future operational modes.

This contribution shall sum up the results obtained at LPSC concerning the $1+$ to $n+$ conversion efficiencies for noble gazes as well as for alkali elements and the corresponding transformation times.

[1] P. Delahaye et al, Review of Scientific Instruments. 77, 03B105 (2006)

[2] R. Vondrasek et al, Review of Scientific Instruments 83 113303 (2012)

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