

Physics opportunities with the SPIRAL upgrade



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Study of explosive hydrogen burning in classical novae using ^{30}P and ^{25}Al radioactive ion beams

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Classical novae outbursts are very special events since they are the 3rd most energetically ones after gamma-ray bursts and supernovae. The nucleosynthesis network involved in such events is now mainly known experimentally with a few exceptions such as the $^{25}\text{Al}(p,\gamma)^{26}\text{Si}$ and $^{30}\text{P}(p,\gamma)^{31}\text{S}$ reactions. In this contribution we would like to emphasize the importance to develop ^{25}Al and ^{30}P radioactive ion beams with intensities of the order of 10^5 pps.

Auteur principal: DE SÉRÉVILLE, Nicolas (IPN Orsay)

Orateur: DE SÉRÉVILLE, Nicolas (IPN Orsay)

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