ISOLDE Solenoidal Spectrometer Workshop 2020



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Probing the p-n interaction near ¹³³Sb

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The strength of p-n interaction between various orbitals gives an important information to understand the nuclear system [1]. With an intense 133Sb beam of 5×10^{5} pps produced by the HIE-ISOLDE, the p-n interaction near 133Sb can be probed via the (d,p) and (d,t) reactions. We will discuss the feasibility of these reactions such as the yield, the Q-value resolutions, and experimental requirement.

References

[1] J.P. Schiffer and W.W. True, "The effective interaction between nucleons deduced from nuclear spectra," Reviews of Modern Physics, vol. 48, p. 191, 1976.

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