Contribution ID: 118 Type: Experiments

2 Neutron transfer reactions: present and future

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We present results of the experiment performed to measure the 10Be(t,p)12Be reaction with SOLARIS and results for the experiment performed to measure the 14C, in particular, the inelastic and (p,t) reaction channels with AT-TPC. These two solenoidal spectrometers present both great capabilities and benefits for direct-reaction measurements, but there is room for improvement. We propose simulations to study improvements with AT-TPC that will allow the use of new targets, such as tritium, better granularity read-out to obtain greater resolution or higher magnetic fields. To validate simulations, we analyze the same reactions under the new conditions.

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