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## Study of reactions involving weakly-bound nuclei

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Recently, an experimental campaign was performed at the LAFN (Open Laboratory of Nuclear Physics) of the University of São Paulo. Various angular distributions were obtained at energies around the Coulomb barrier for the  ${}^7\text{Li} + {}^{120}\text{Sn}$  and  ${}^{10,11}\text{B} + {}^{120}\text{Sn}$  reactions. Besides the elastic scattering, other reaction channels, such as projectile and target-like excitation, and transfer of nucleons, were observed. Details on the experiment, and a theoretical analysis performed within the coupled-channel formalism, will be presented.

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