



Contribution ID: 288

Type: **Parallel Talk**

## Study of reactions involving weakly-bound nuclei

*Tuesday 24 October 2017 11:30 (30 minutes)*

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.

**Author:** GASQUES, Leandro (University of São Paulo, Nuclear Physics Department, Brazil.)

**Presenter:** GASQUES, Leandro (University of São Paulo, Nuclear Physics Department, Brazil.)

**Session Classification:** Parallel Sessions - NUC

**Track Classification:** Nuclear Structure, Nuclear Reactions and Exotic Nuclei