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**Nuclear Astrophysics at LNL:
the $^{10}\text{B}(p, \alpha)^7\text{Be}$ reaction studied
with activation technique**

Abstract

The National Laboratory of Legnaro (LNL) has a wealth of experience in Nuclear Physics measurements. Recently a new effort to perform Nuclear Astrophysics studies has been initiated. This effort started with the collaboration of LNL with the LUNA (Laboratory for Underground Nuclear Astrophysics) collaboration for the study of targets. In 2014 the study of $^{10}\text{B}(p, \alpha)^7\text{Be}$ was performed in order to give a precise normalization to the indirect measurements. As a matter of fact, a normalization problem was arised in previous works due to discrepancies in the results of different experimental datasets. At LNL the cross section was determined by measuring the activated samples at the low counting facility of the LNL laboratory. The analysis of that experiment is now complete and a detailed report of the obtained results will be presented in this contribution.

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