



Recent gamma-ray spectroscopy at LNL and future perspectives

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Zoom:

<https://ijclab.zoom.us/j/96737074219?pwd=bTlla0RubUZ5ak12OWJGTVVzUThZQT09>

I will describe recent gamma-ray spectroscopy measurements at LNL with the array GALILEO. I will outline the physics cases and preliminary experimental results linked to lifetime measurements around the magic number 50 for both protons and neutrons. In particular I will discuss lifetime measurements in the odd-even ^{105}Sn and in the $N=49$ ^{83}Se isotope. I will then briefly address possible follow-up physics cases in the AGATA campaign at LNL. Part of the seminar will then be devoted to point out how complementary information can come from low-energy experiments at the ALTO facility at IJCLab, showing which kind of future measurements at ALTO and GANIL will be helpful in order to elucidate nuclear structure around $(N,Z=50)$ shell closures.