

# nn $\Lambda$ Analysis Meeting

July 27, 2021

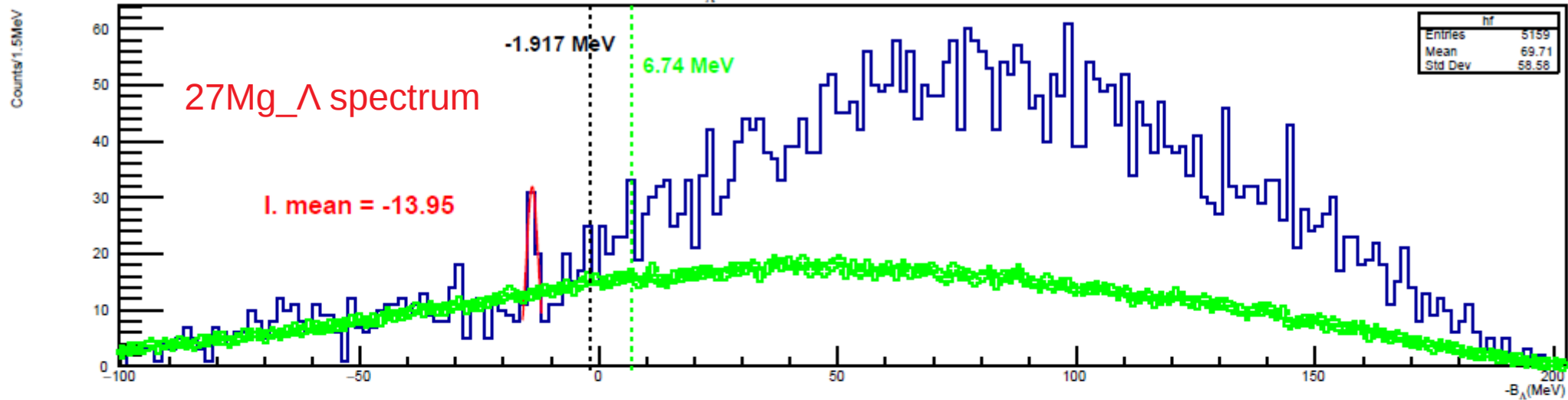
Bishnu Pandey

Hampton University

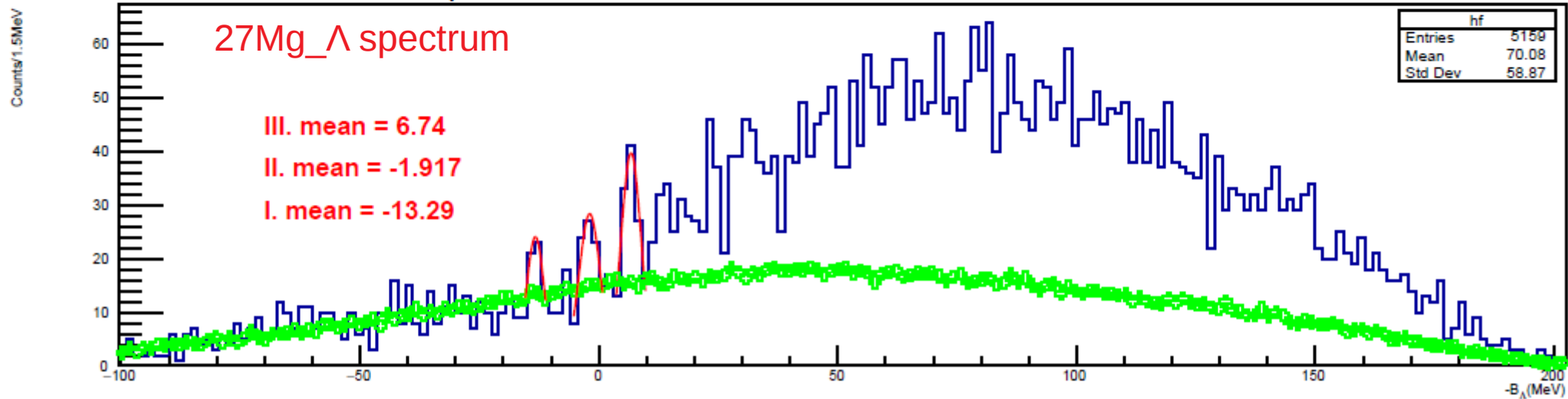
## Summary of work:

- The momentum matrices are tuned again.
- For the  $^{27}\text{Mg}_L$  spectrum, the events for the tuning process are selected from the bound region only which corresponds to  $B_L = -20$  to  $-10$  MeV.
- The obtained result ( $^{27}\text{Mg}_L$  and nnL spectrum) is compared with the previously obtained spectrum for which all 3 peaks are involved in the matrix tune.

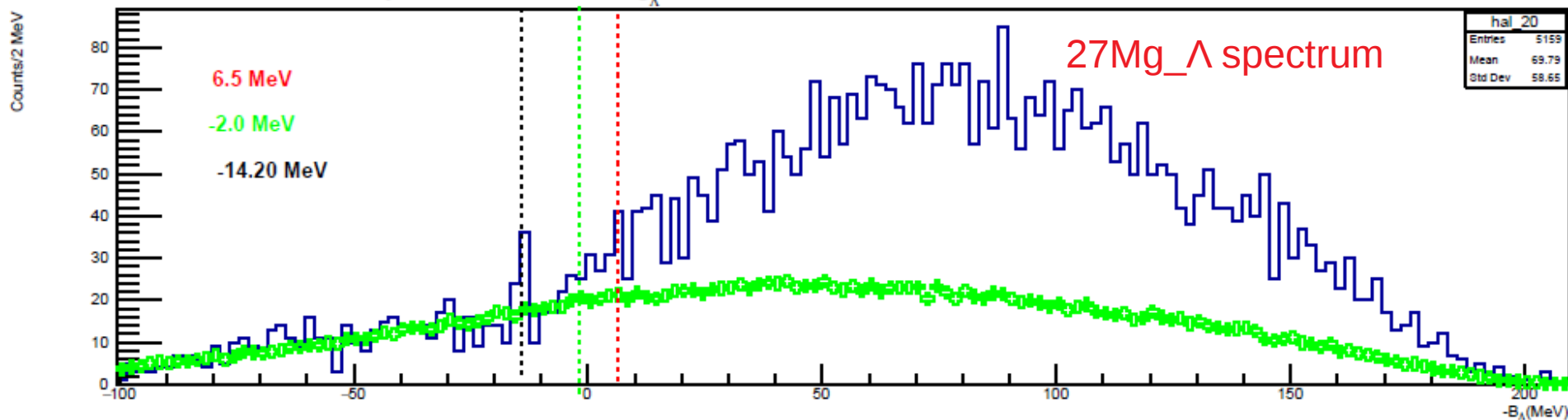
Only the bound peak of  $^{27}\text{Mg}_\Lambda$  involved in tune



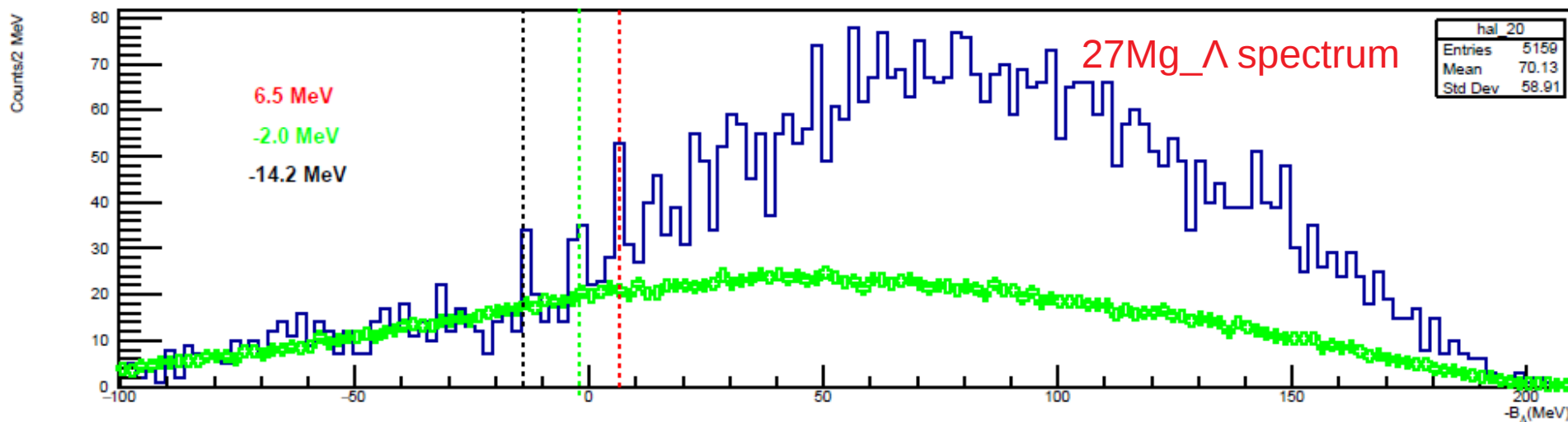
Three peaks are involved in matrix tune



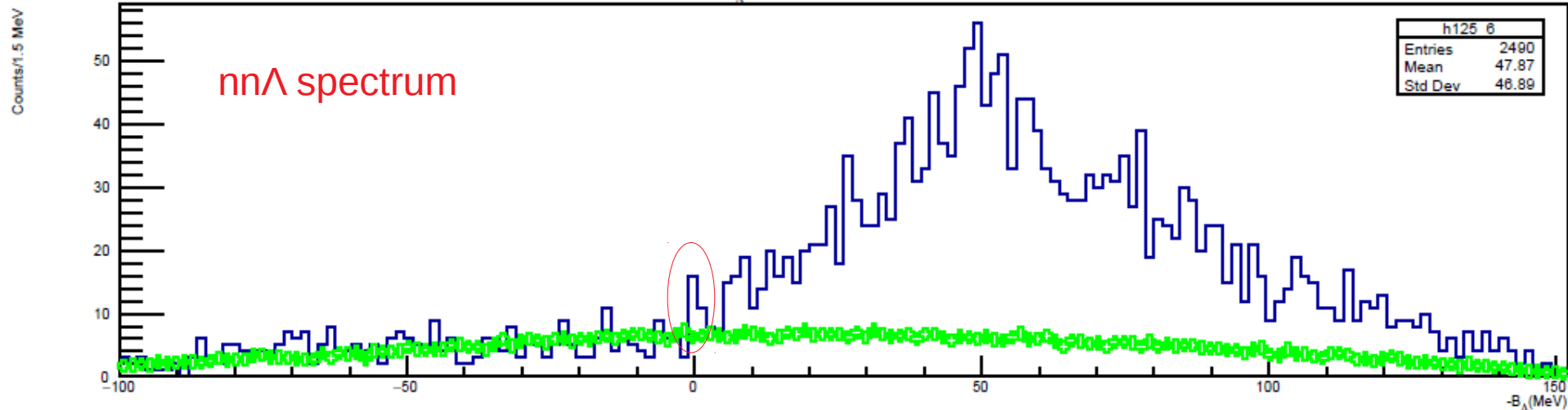
Only the bound state of  $^{27}\text{Mg}_\Lambda$  involved in tune



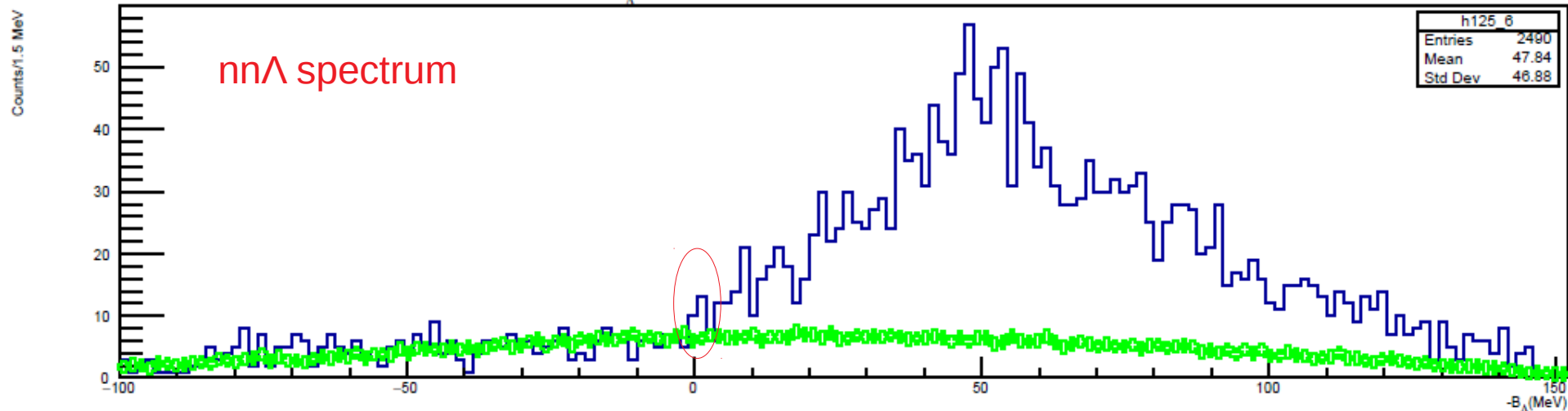
All 3 peaks from  $^{27}\text{Mg}_\Lambda$  are involved in matrix tune

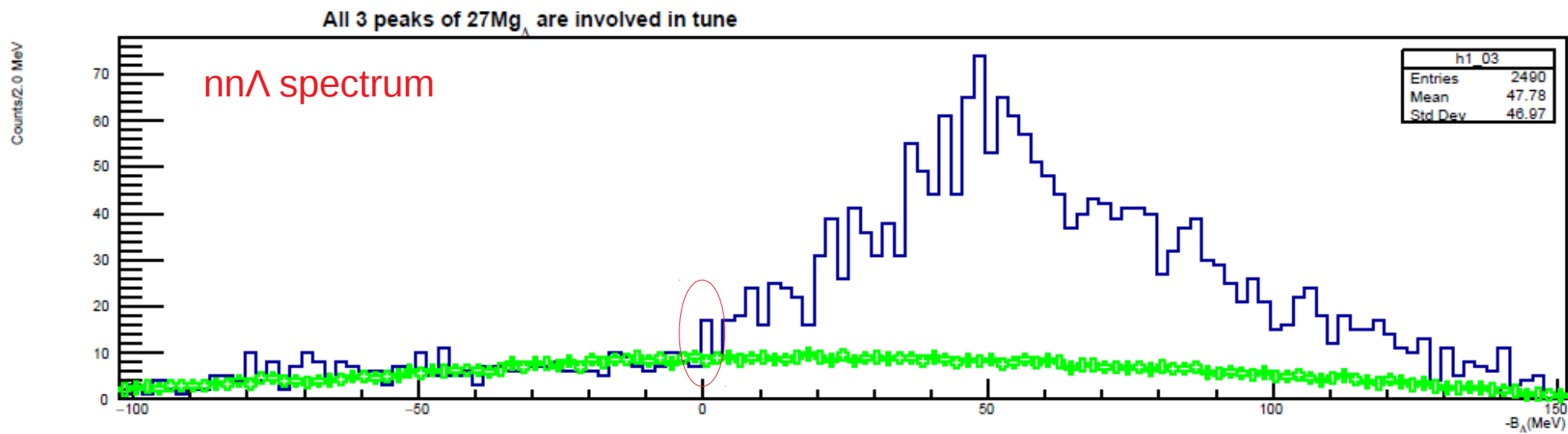
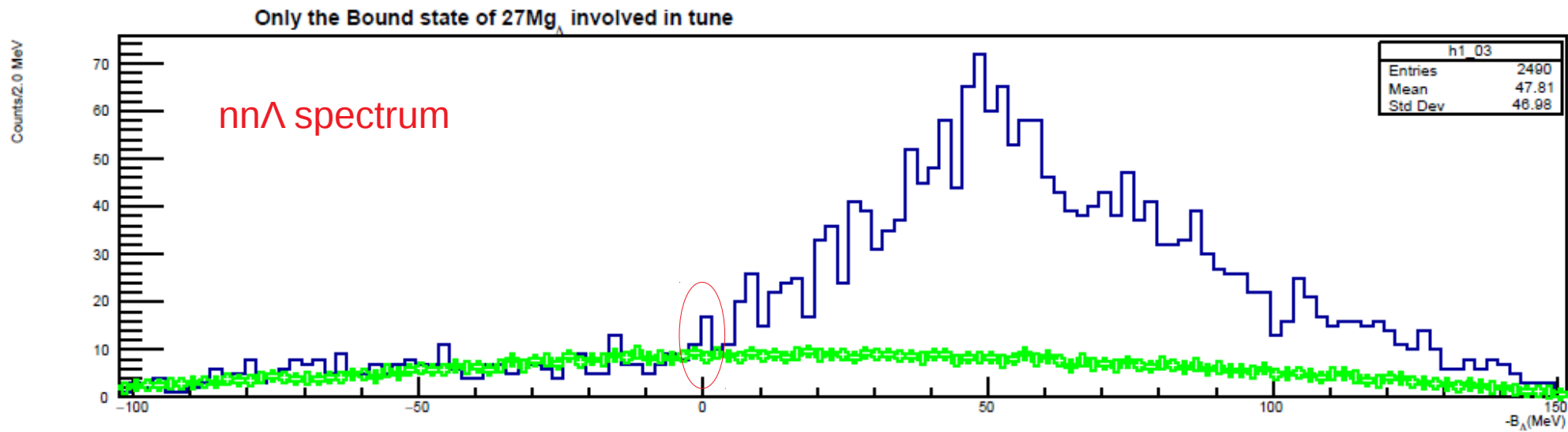


Only the bound state of  $^{27}\text{Mg}_\Lambda$  is involved in matrix tune

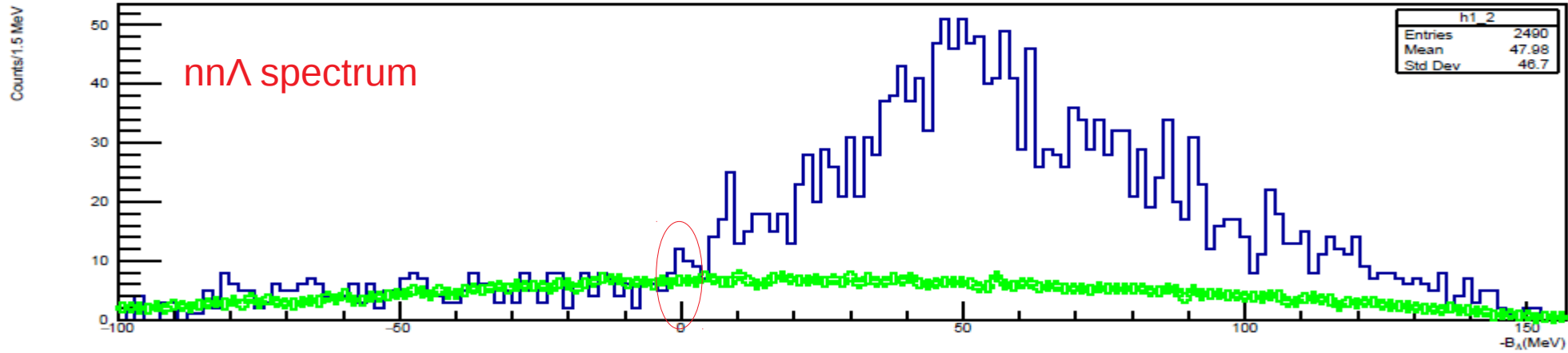


All 3 peaks from  $^{27}\text{Mg}_\Lambda$  involved in tune

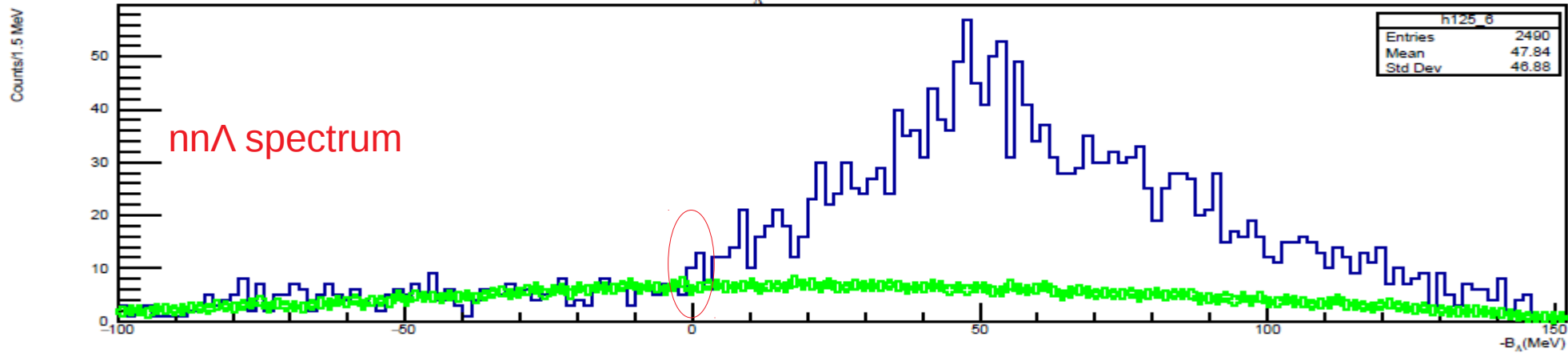




nn $\Lambda$  spectrum from my Thesis



nn $\Lambda$  spectrum (3 peaks from  $^{27}\text{Mg}_\Lambda$  are involved in tune)

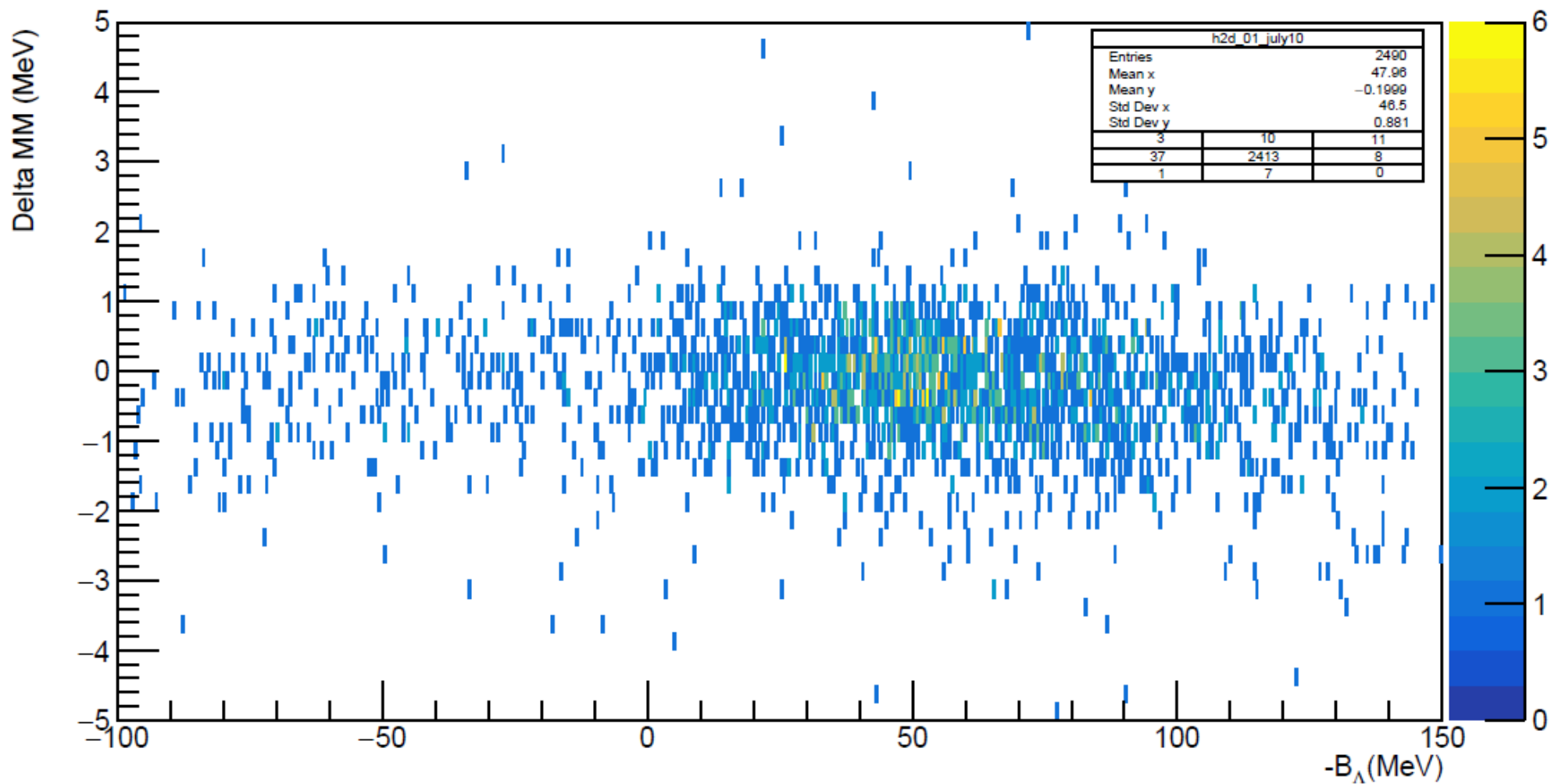


- Whatever the way the matrices are tuned, the small enhancement above the nn $\Lambda$  threshold region is always there.

# Backup Slides



# nnL Spectrum,



# nnL Spectrum,

