TPOL check of 2022 data



TPOL

Checking 2022 data

Biggest concern:

- Using the SEB tree instead of the Nathan tree
 - SEB tree has different variables than the Nathan tree
 - SEB is the plugin used for cooking
 - Nathan tree has been the version I have always used in the past



TPOL

Checking 2022 data

Biggest concern:

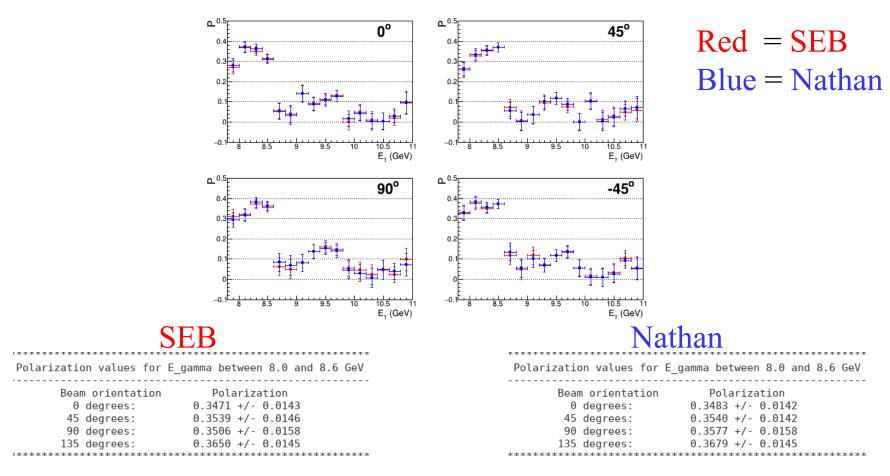
- Using the SEB tree instead of the Nathan tree
 - SEB tree has different variables than the Nathan tree
 - SEB is the plugin used for cooking
 - Nathan tree has been the version I have always used in the past

Important tests

- Make sure that the conversion layer for SEB to Nathan variables work
- Compare prior TPOL analysis using Nathan trees with a TPOL analysis utilizing SEB trees



Comparison of results from different TPOL trees using 2019-11 data (batch 11-12)



- Agreement is close but not exact
- I will have to determine why agreement is not exact (not exact same run files?)
 - The agreement is close enough to proceed with SEB trees



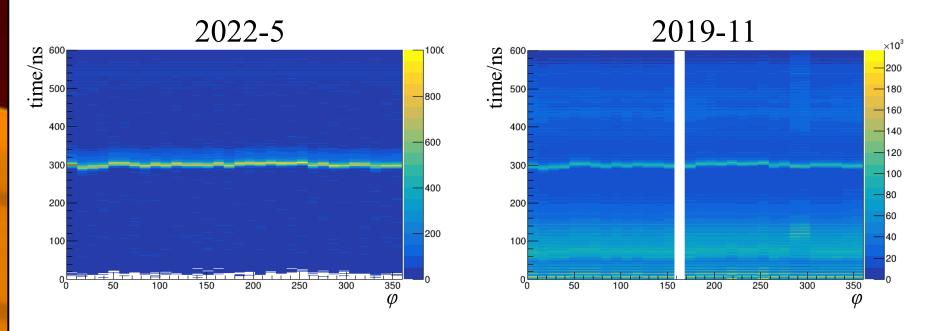
Comparing 2022-5 data to 2019-11 data

• Looked at 74 runs (all run numbers that end with 2) and processed them through the waveform fitting and subsequent TPOL histogram creation.



Comparing 2022-5 to 2019-11

• Comparison of time versus azimuthal angle φ

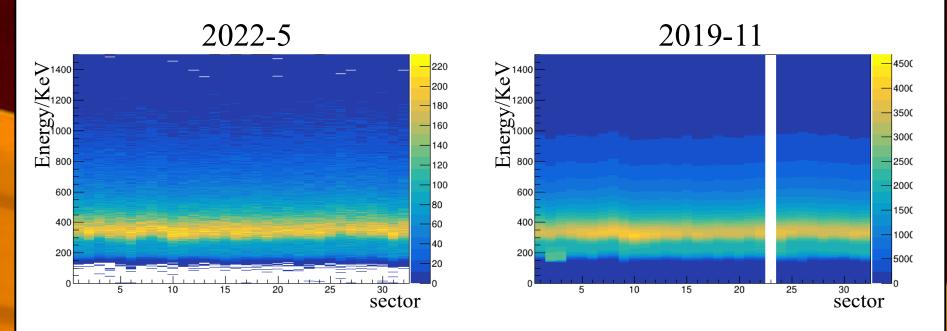


- Looks like problem sector came back to life ©
- The 2022-5 data looks better than 2019-11 ©



Comparing 2022-5 to 2019-11

• Comparison of energy deposition versus sector



• I do not see anything to be concerned about ©



Title

