

Isolation Trigger Issues

- IsoClique not sending seeds to Isolist, three times now(?).
- Spare IsoClique causes energy mismatches and should only be used as a last resort
- IsoClique was a “prototype”, 4 new production boards have been fabricated, 1 has been stuffed and 1/2 tested (ok so far)
- Will finish testing and stuffing these boards and replace the B0 IsoCliques

Isolation Trigger Issues

- Still sending data for all passes, need to use only pass=1 (switch on IsoClique)
- With no changes, Trigmon plots will be messed up.
- Need to change official Trigmon tcl file at same time as switch change, with cosmics.
- Still could be remaining problem with Trigmon, will need Nathan to be available when switch is made.

Isolation Trigger Issues

- Eta errors at 1%, code passes event if $\text{eta_iso} \neq \text{eta_clist}$.
- Not a problem, but if errors go to 100% photon rate will cause deadtime.
- Yanwen Liu believes eta errors are not in $\text{pass}=1$.
- If $\text{pass}=1$ switch doesn't fix this, have two diagnostic chips for Isolist.
- Errors only happen in crate 2, and this bit is next to lowest eta bit on backplane.

Isolation Trigger Issues

- Main Trigmon plot needs all 5 sums put into it.
- Only have 1 spare IsoPick, 2nd one has a stuck bit that has been hard to find.
- Have one Isolist still PECL in order to keep the ANL test crate working.
Maybe can modify the alpha emulator to use TTL.
- Energy errors dropped from 0.1% to 0.01% with no effort. Code changes?

Isolation Trigger Issues

- Haven't tested the standalone Iso diagnostic code in a full crate and for a long time.
- Need to organize the code so anyone can use it and add to web page.
- Retrain Bob Blair as a backup after doing this.
- Questions about the overall system speed, need to restudy this issue. Isolist still has PECL delays in sending data.