

1. Write a new TCMaking algorithm that merges tracks/TAs across detector readouts and/or planes.
2. HSI/CTB/CIB rework. CTB & CIB will need their own “fake” modules, Fake HSI will only be possible as Fake DTS.
3. TASets to TAs between TAMaker & TCMaker (requires TAZipper rework...).
4. Replay and emulation enchantment: multiple readout units, needed for PD2
5. Full latency measurements for all the TA algorithms using emulation tools.
6. Grafana update: latency measurements implemented in TAMaker, but Grafana needs updating.
7. MLT latency measurements between TC retrieval & readout window made.
8. Compare CB random cosmic events collected vs expectation to get efficiency.

V5 is more long-term, but also requires a lot of re-learning. The triggering system really is very different.

1. TP filtering: channel filtering (maybe not needed), TOT etc. at the TAMaking side.
2. Currently no Grafana implementation: need opmon!
3. The multiple algorithm logic is currently (potentially) broken.
 - E.g. TA-ReadoutModule can process TPs with two different algorithms.
 - All TAs sent through the same pubsub connections, so all TC-ReadoutModules will get the same data.
 - Needs either some filtering, or playing with network connections...
4. HSI/CTB/CIB rework – will need to coordinate with work from v4...
5. Rewriting replay application into OKS schema...

1. Trigger simulation: integration with LArSoft. Many ideas knocking around, many people with expertise, need someone to work on this.
2. Trigger types / trigger bitwords rework.
3. Re-defining TC window time based on the amount of data we want to store per interaction?