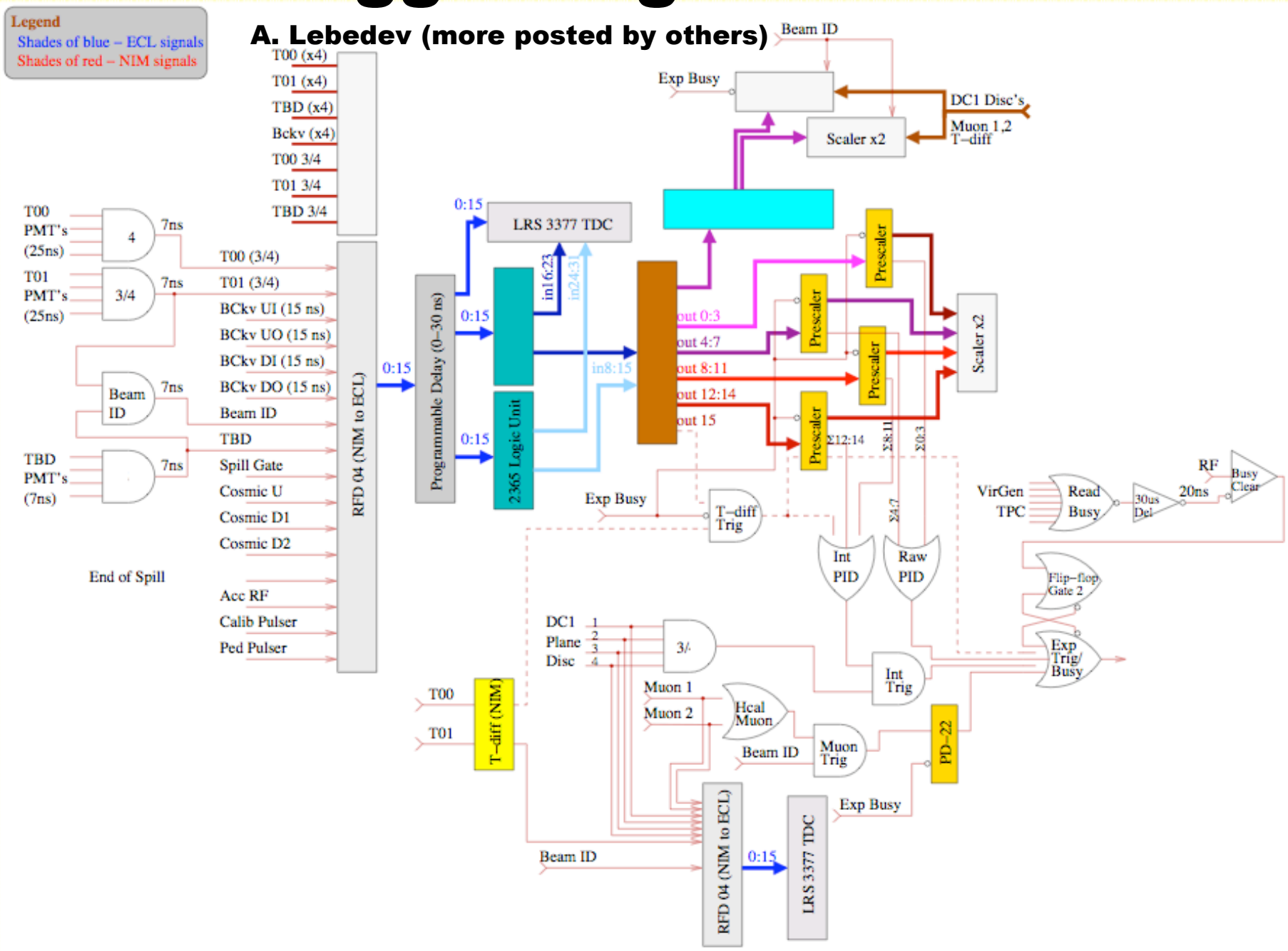
Beam Trigger Detectors

Possible Downstream Trigger Detectors

- DC1 (multiplicity)
- DC4 (bullseye)
- TOF (mult or bullseye)
- HCAL (muon-calibration)

Trigger Logic

A. Lebedev (more posted by others)



Trigger Problems

- BCKV logic consistency not better than 10%, though pulser logic good to 1 in 1e5
- BCKV signals not yet optimized/timed in
- Still studying LRS2365 specs

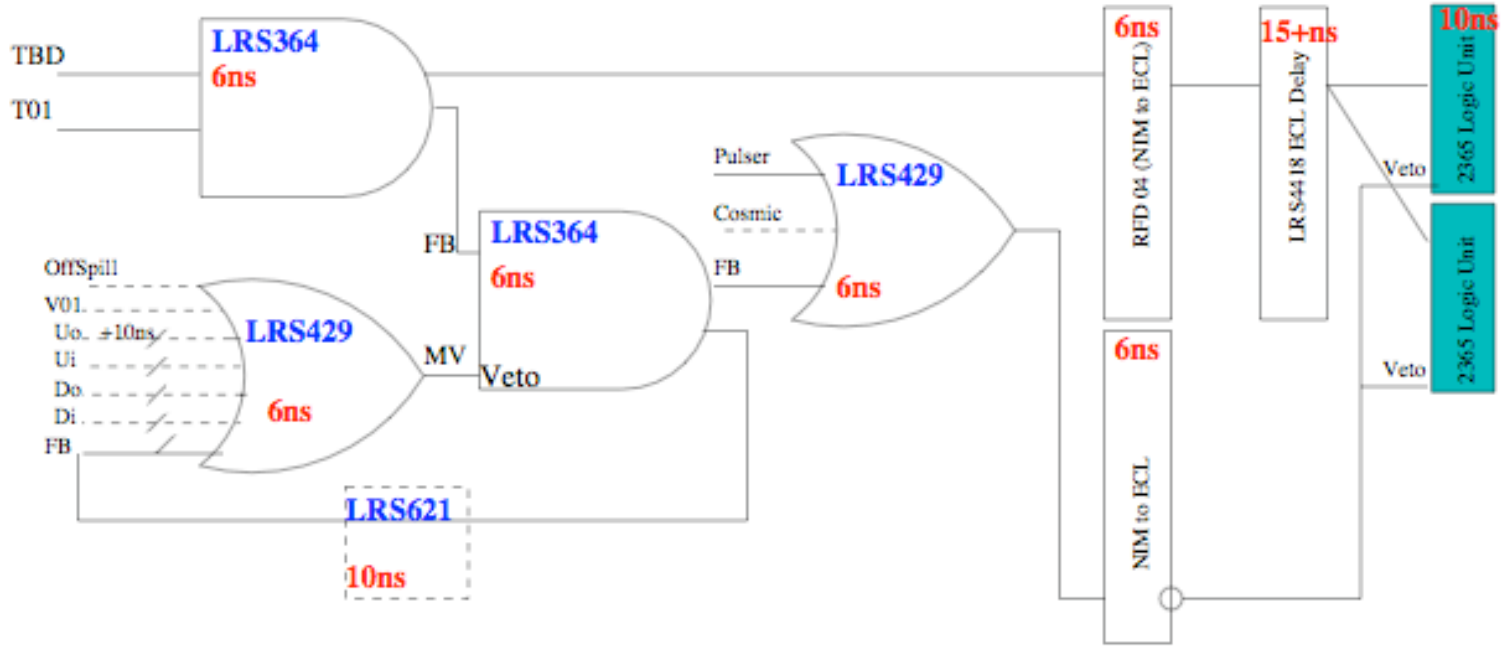
Goal: Finish BCKV work, form consistent beam definition trigger

Trigger Rules

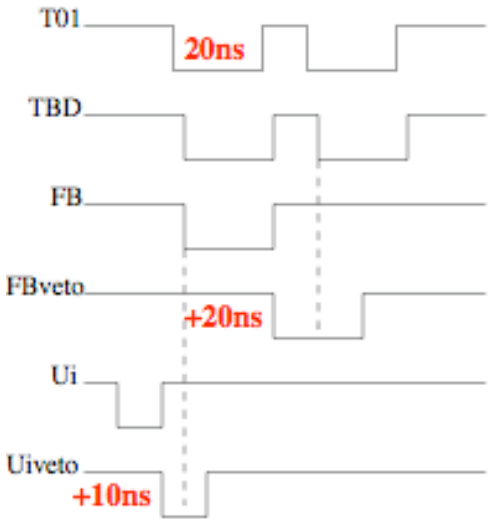
- Current trigger design is frozen!
- Future changes must be proposed, discussed, approved, implemented, pulser-tested!
- Exception: If it is broke, fix it.

Proposal #1 : Taming the 2365s

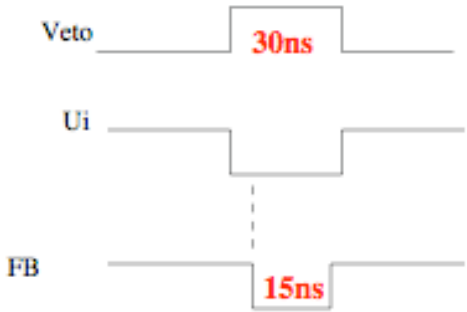
Trigger L2365 Veto and pile–up Logic



Timing at LRS364 – FastBeam

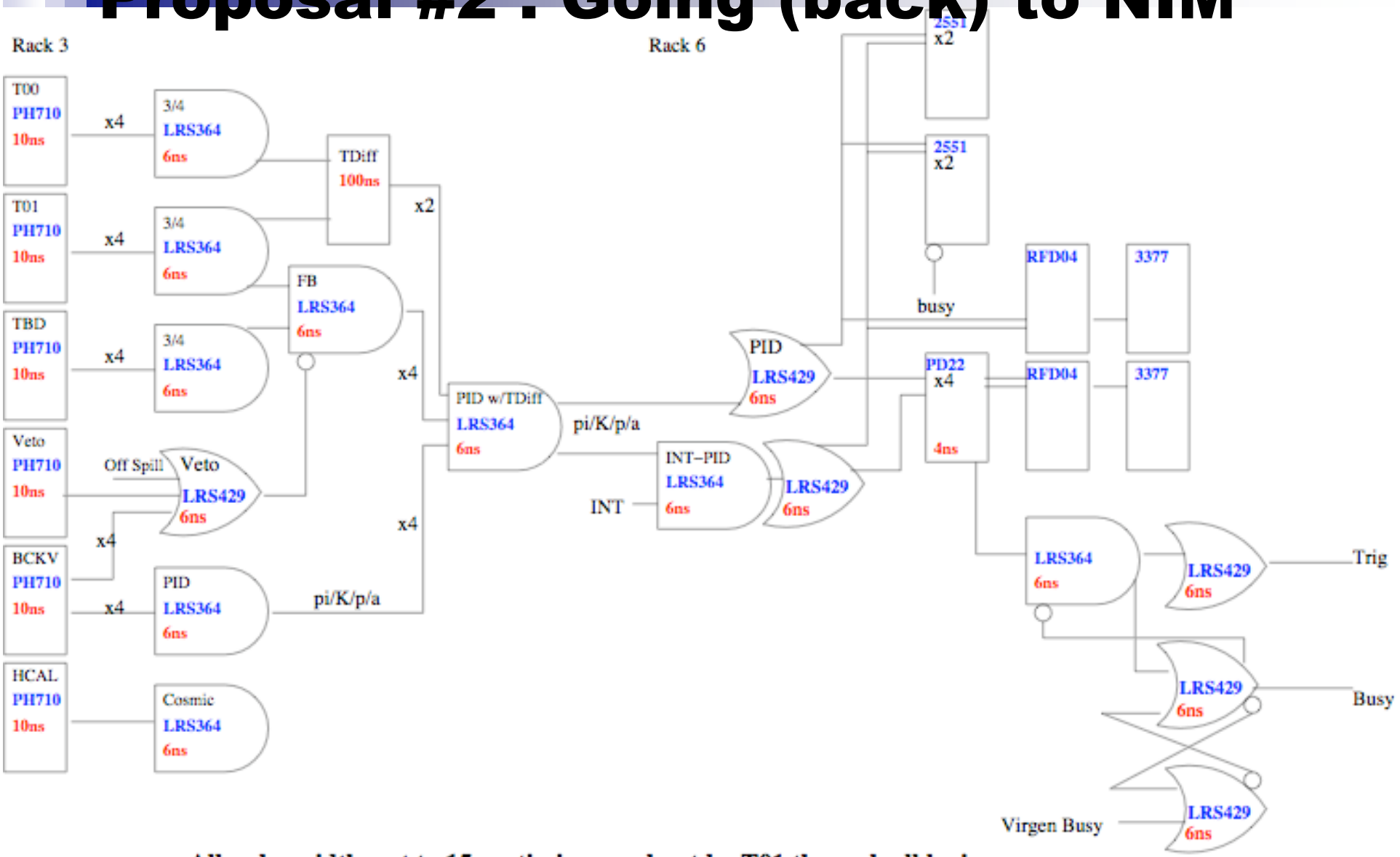


Timing at LRS2365 – BeamLogic



Cabled lines are solid. Dated 10–Jun–2004

Proposal #2 : Going (back) to NIM



All pulse widths set to 15 ns, timing mark set by T01 through all logic.

Nim Logic Trig – 04–jun–1