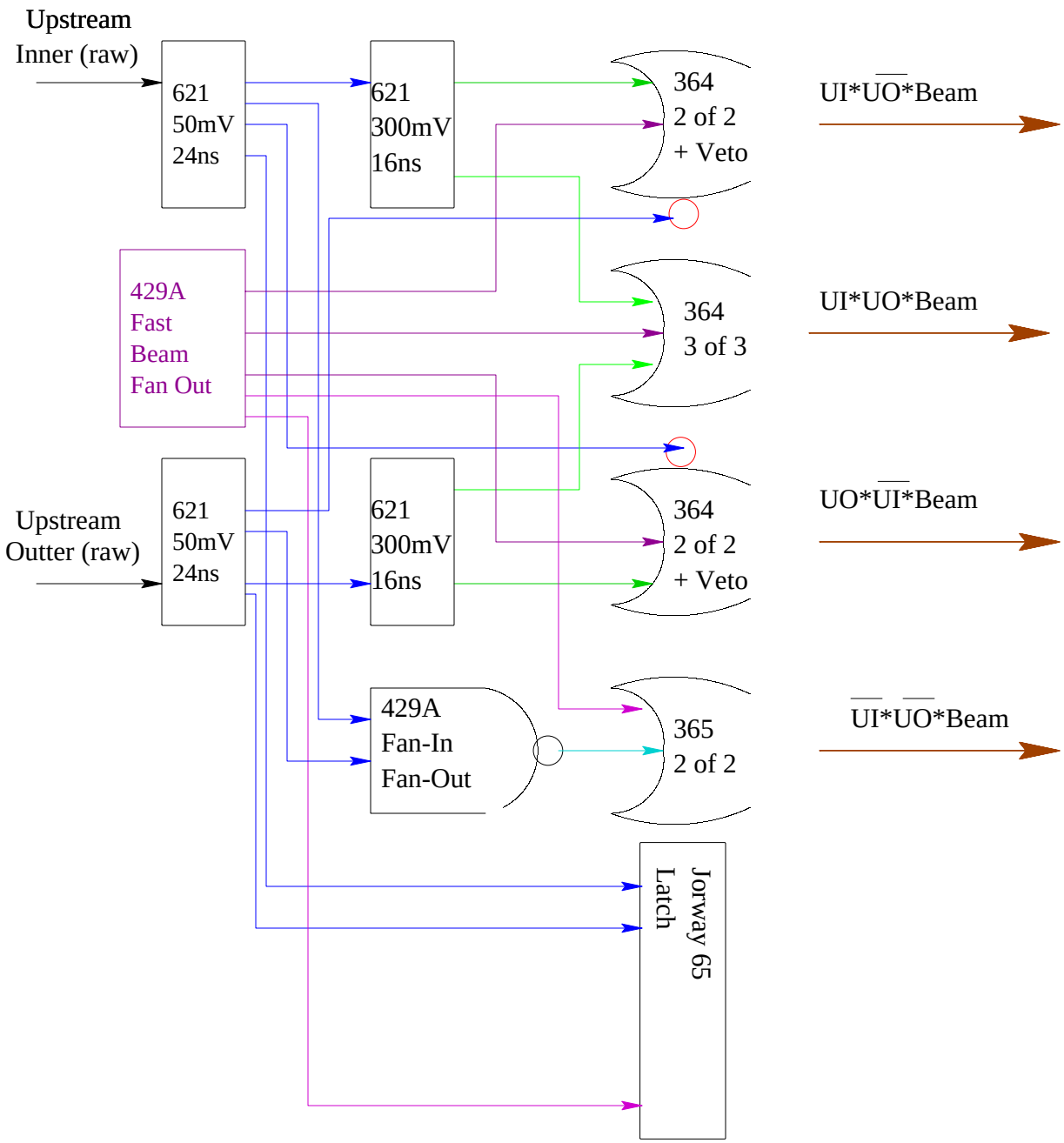
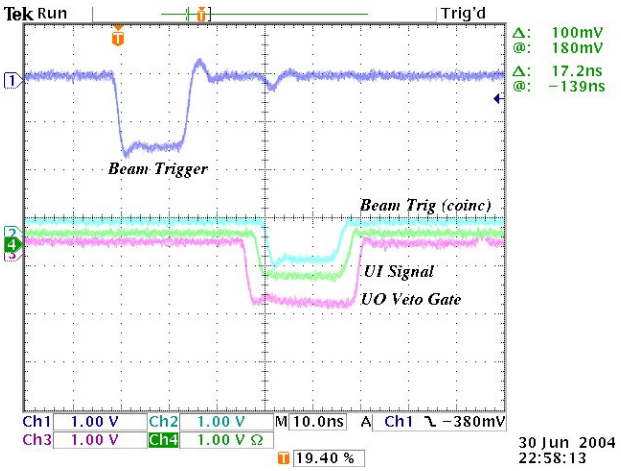


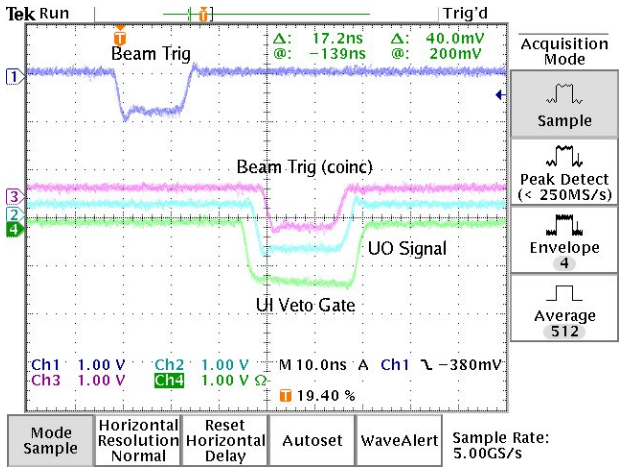
Title: BCKOV particle ID NIM trigger logic		
Author: A. Norman		
Scale: N/A	Date: 6JUL2004	Revision: 01
Notes: Upstream count shown		

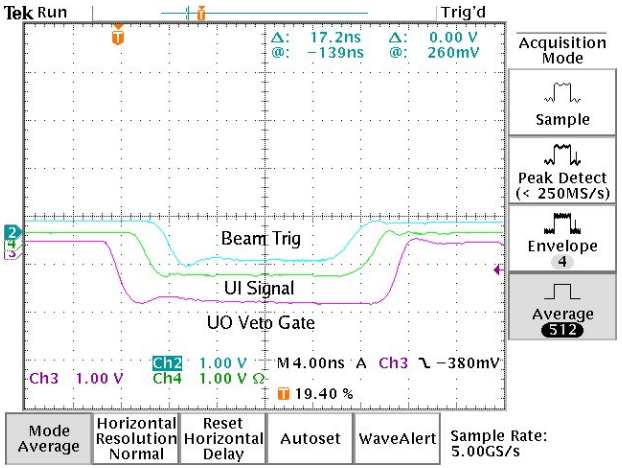
Beam Cerenkov PID

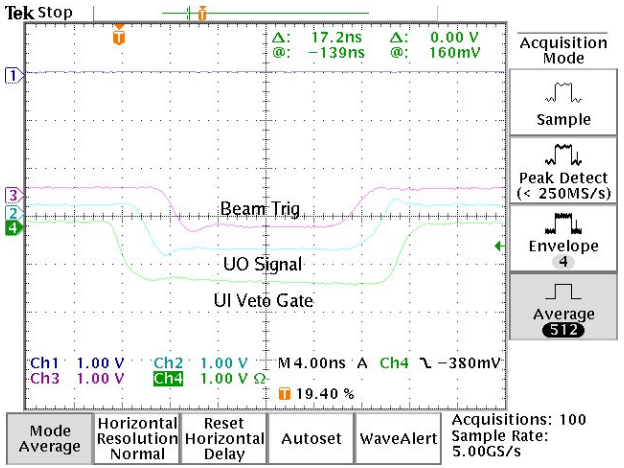
Trigger Combination Timing Diagrams

Upstream Logic





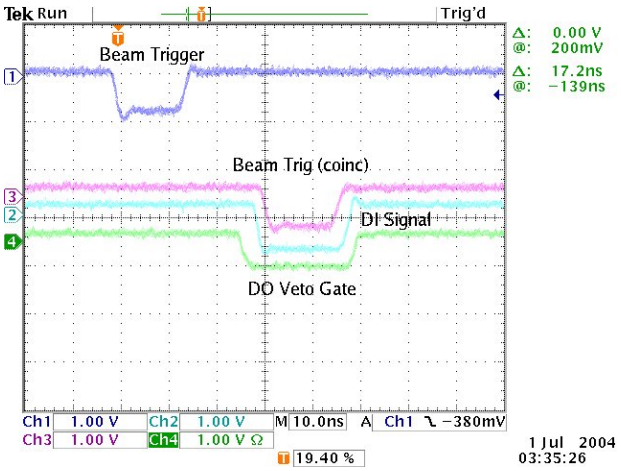


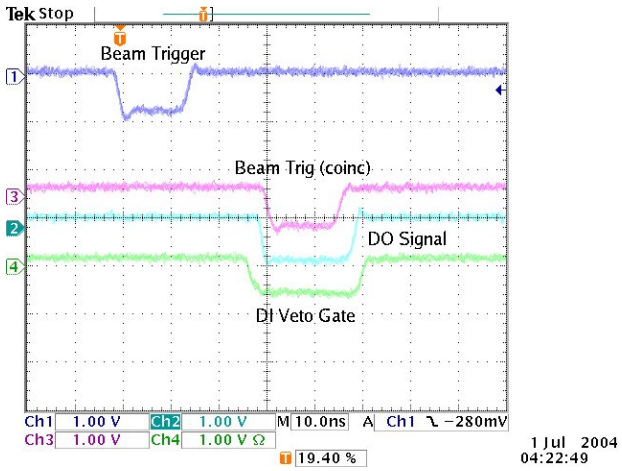


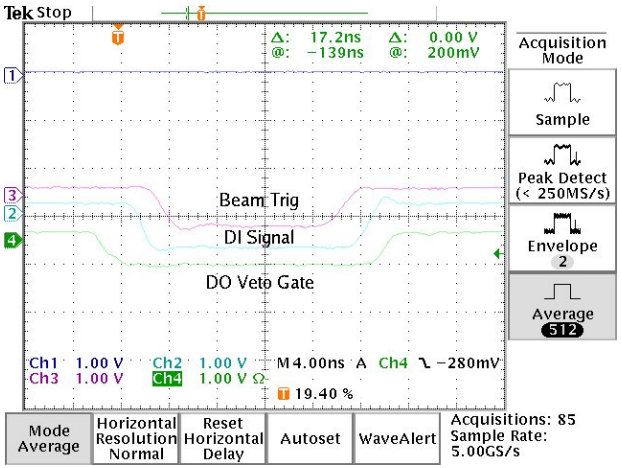
$UI * \overline{UO} * Beam$

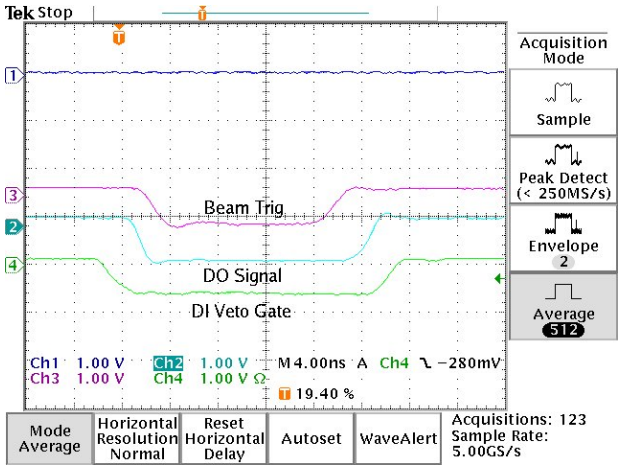
$UO * \overline{UI} * Beam$

Downstream Veto Logic





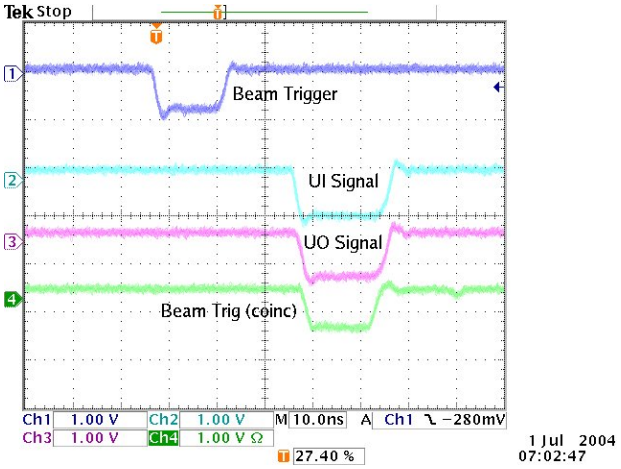


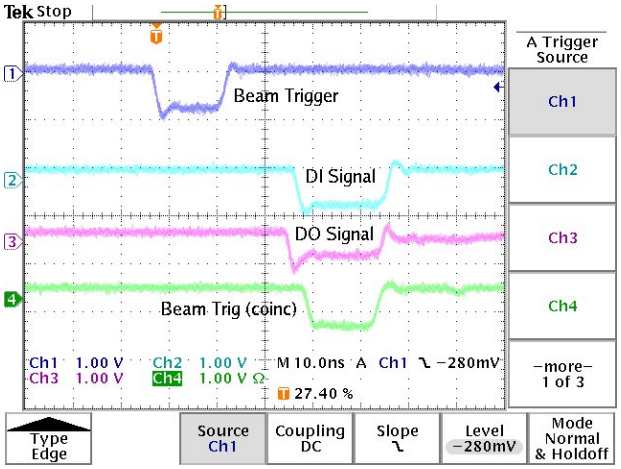


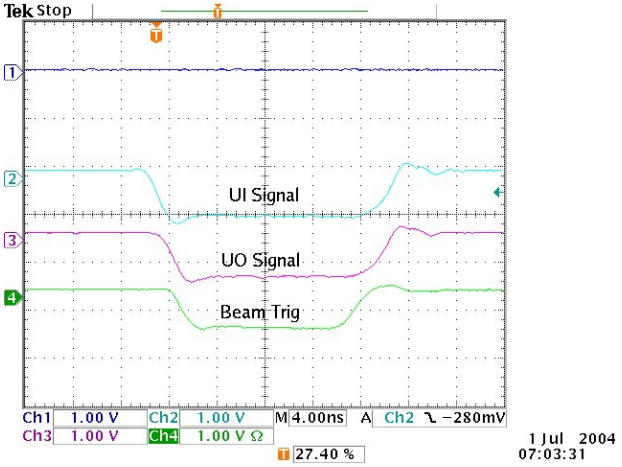
$$DI * \overline{DO} * Beam$$

$$DO * \overline{DI} * Beam$$

Coincidence Logic

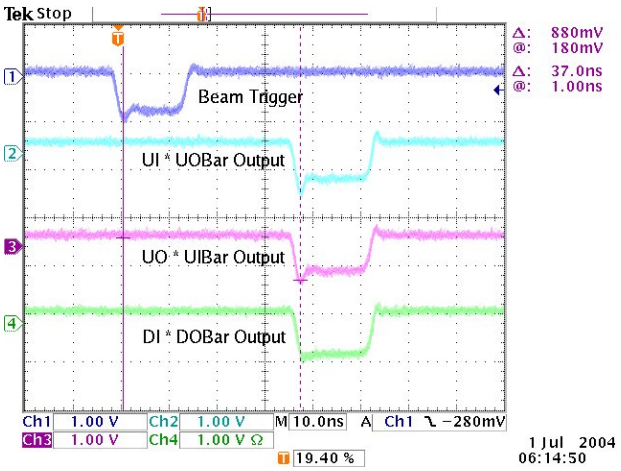


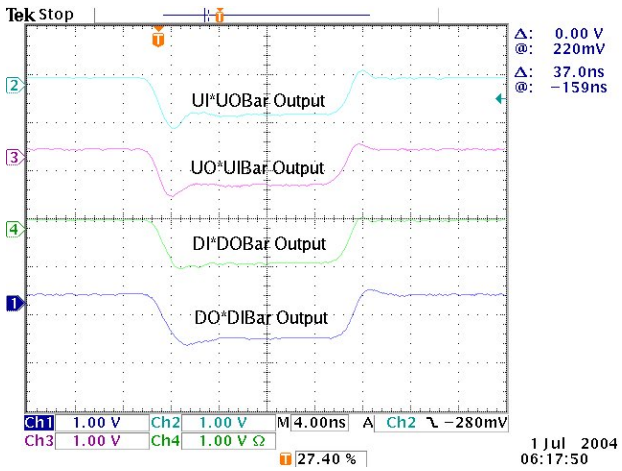




Non Veto Logic is a standard overlap coincidence

Final Trigger Alignment





- All of the final triggers are aligned in time with respect to each other
- Total transit time is 37ns from initial beam trigger (but this uses the BCKOV signals from the 710 in Rack 3.5 not the raw singals, so knock 7ns off this)