Run 8650 Initial Efficiency Results

Tanvi Krishnan

Mentor: Gianluca Petrillo

Run 8650 Details

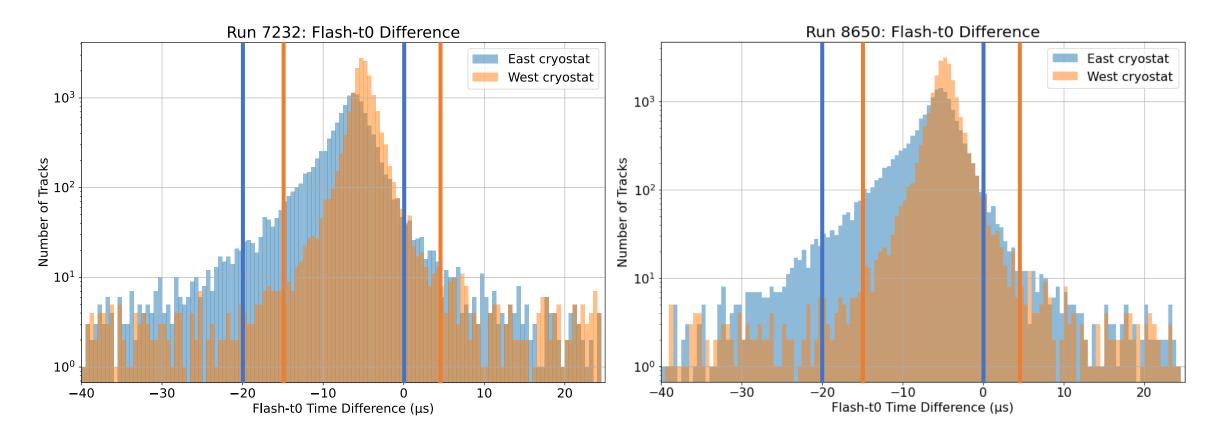
- Run 8650 (July 2022) and 7232 (Nov 2021) are both minimum bias runs
- PMT readout window is (-69 μs , 117 μs) wider than the previous (-75 μs , 75 μs)
- Run statistics (number of tracks) are as follows:

	East Cryostat Track Count	West Cryostat Track Count	Number of Events	Duration of Run
Run 7232	12568	16240	81.0k	6.18 hours
Run 8650	16214	19834	74.9k	21.4 hours

- We do not use the reconstructed flashes for the trigger efficiency analysis
- Trigger emulation window selection: (-15 μ s, 5 μ s) in the West cryostat and (-20 μ s, 0 μ s) in the East cryostat

Trigger Emulation Windows

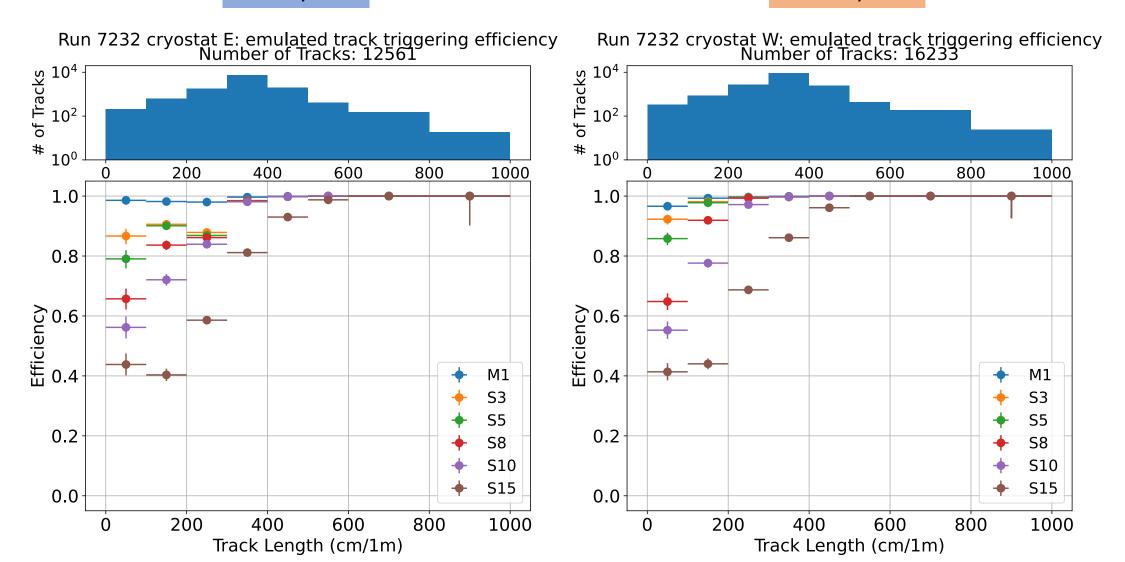
Selected the blue emulation window (-15 μ s, 5 μ s) for the East cryostat and the orange emulation window (-20 μ s, 0 μ s) for the West cryostat

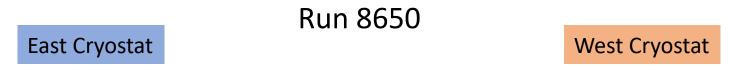


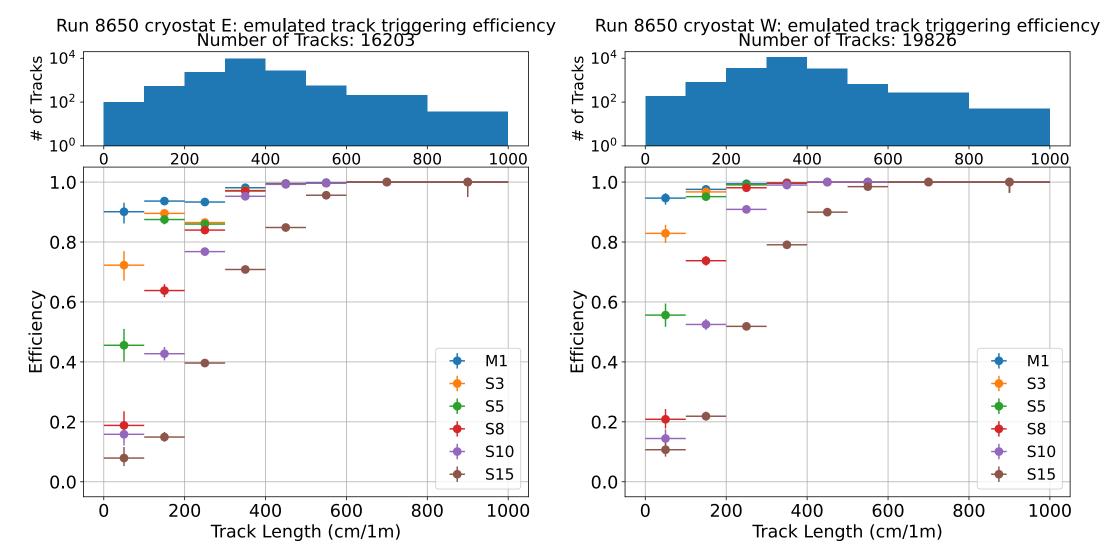
Efficiency Plots

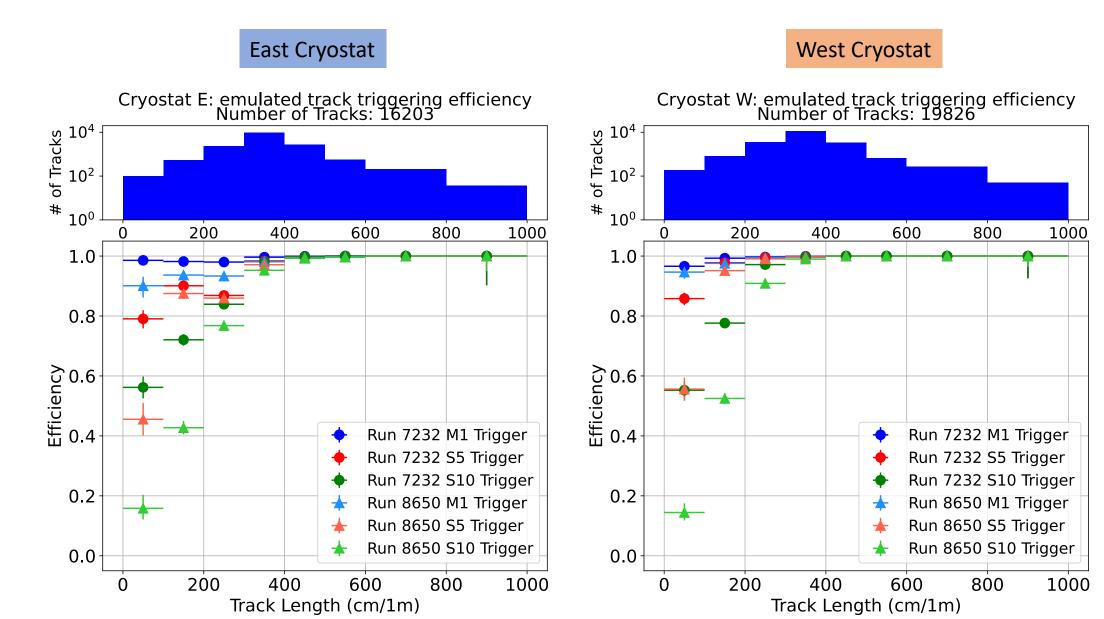
East Cryostat Run 7232

West Cryostat









Only tracks with flashes within the trigger emulation window for each cryostat



