Comparison of LEM and GPM in 2021, 2024

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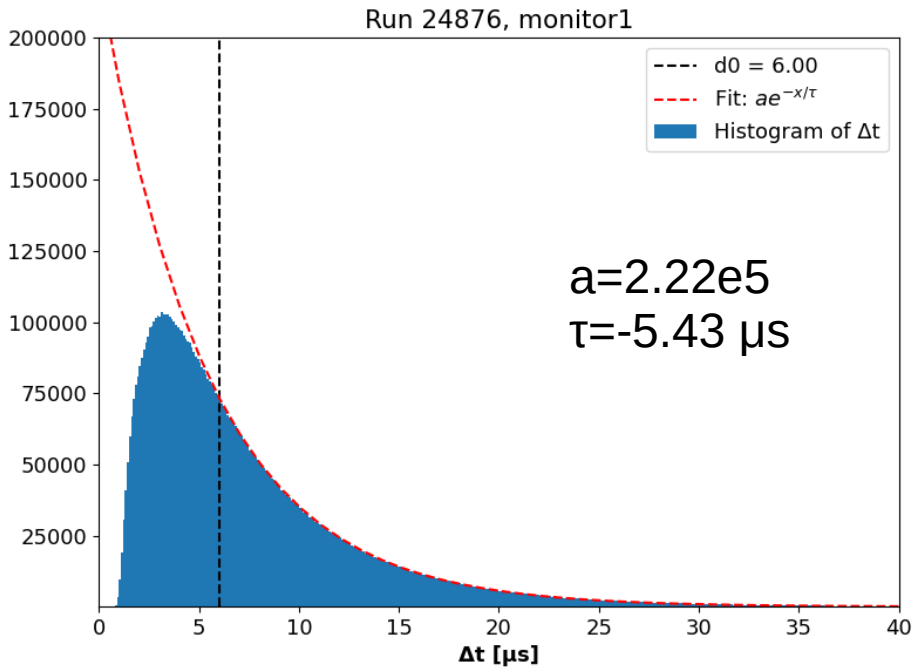
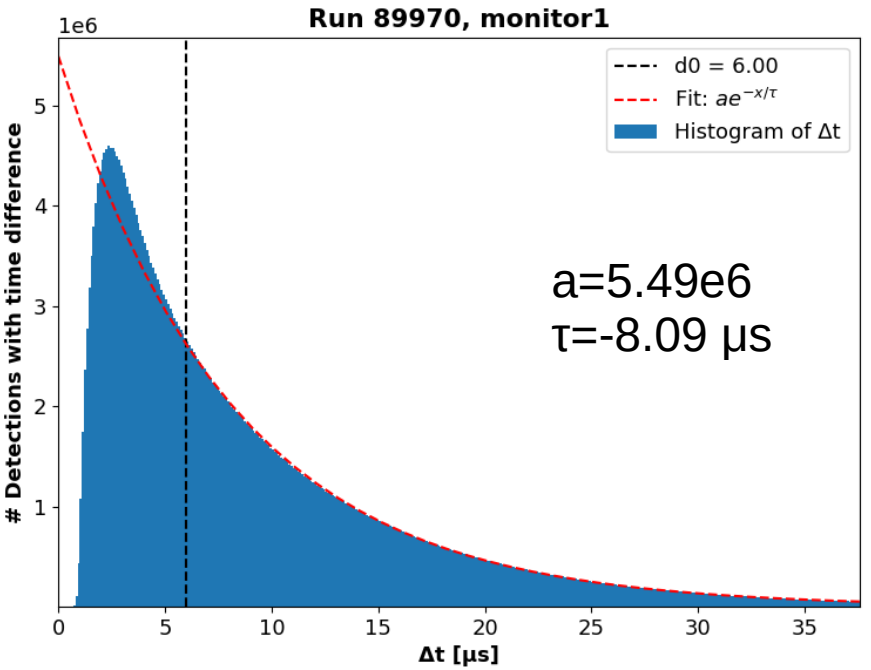
GPM Comparison

2021



- Counts per second: 1.33e5
- Duration: 61.866s
- Well behaved: 1/(1.33e5) = 7.5μs ≈ 5.43μs

2024

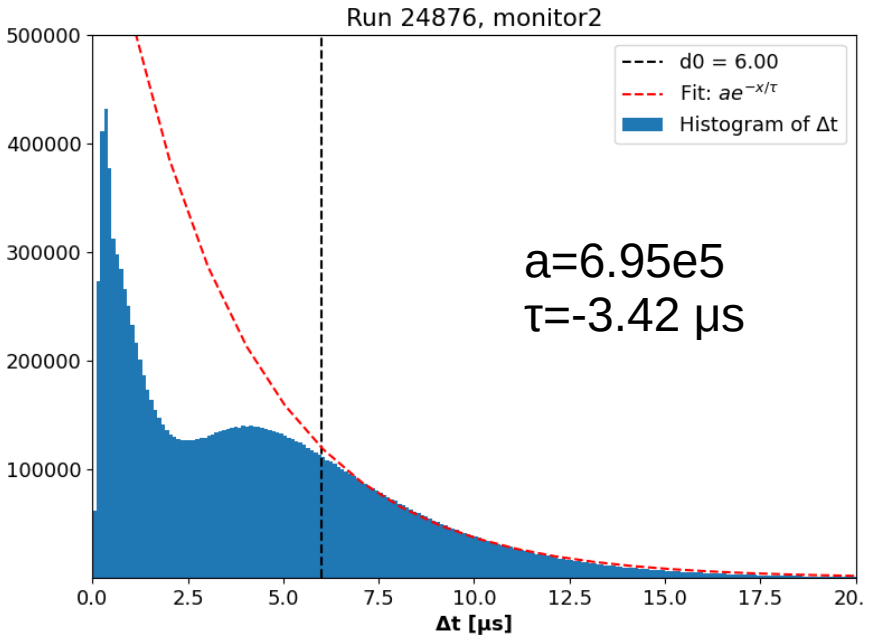


- Counts per second: 1.13e5
- Duration: 219.250s
- Well behaved: 1/(1.13e5) = 8.88μs ≈ 8.09μs

LEM Comparison

Countrate transmission eff:
2.26e5(LEM) ÷ 1.33e5 (GPM)
= 1.70 (**+70%**)

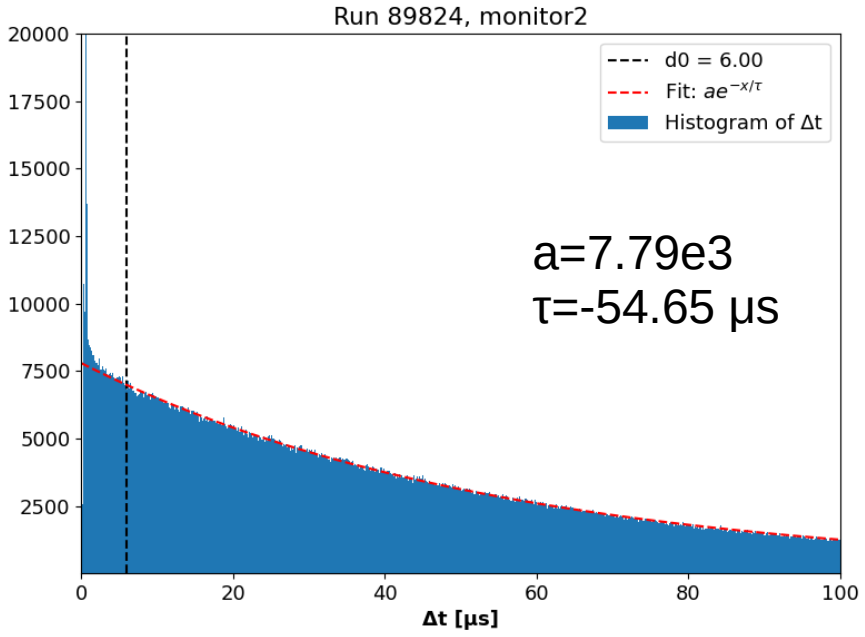
2021



- Counts per second: 2.26e5
- Duration: 61.866s
- Well behaved: 1/(2.26e5) = 4.43μs ≈ 3.42μs
  but why is countrate ~10x higher than expected?

Countrate transmission eff:
1.93e4(LEM) ÷ 1.13e5 (GPM)
= 0.17 (**-83%**)

2024



- Counts per second: 1.93e4
- Duration: 219.250s
- Well behaved: 1/(1.93e4) = 51.83μs ≈ 54.65μs