GRB181222B: Short and bright burst. Precoursor starts at around T0=2018-12-22 20:11:36.197430 (cross correlated with KW)

T90 starts at peak in the precursor and ends at the end of the burst.

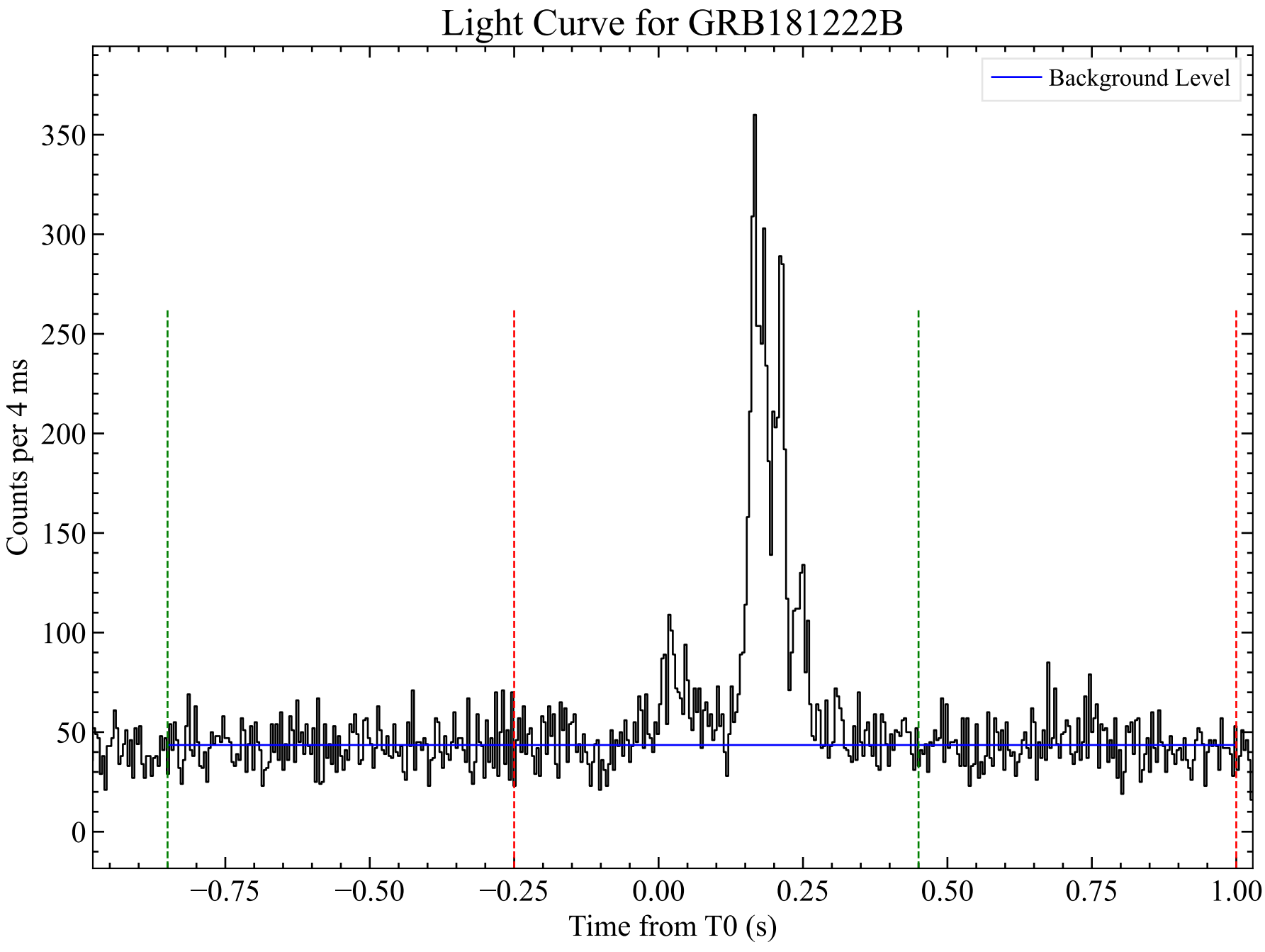
Background: Stable. Polynomial approximation (0-th degree). 1. interval ti=T0-0.85 s, tf=T0-0.25 s.
2. interval: ti= T0+0.45 s tf=T0+1.0 s

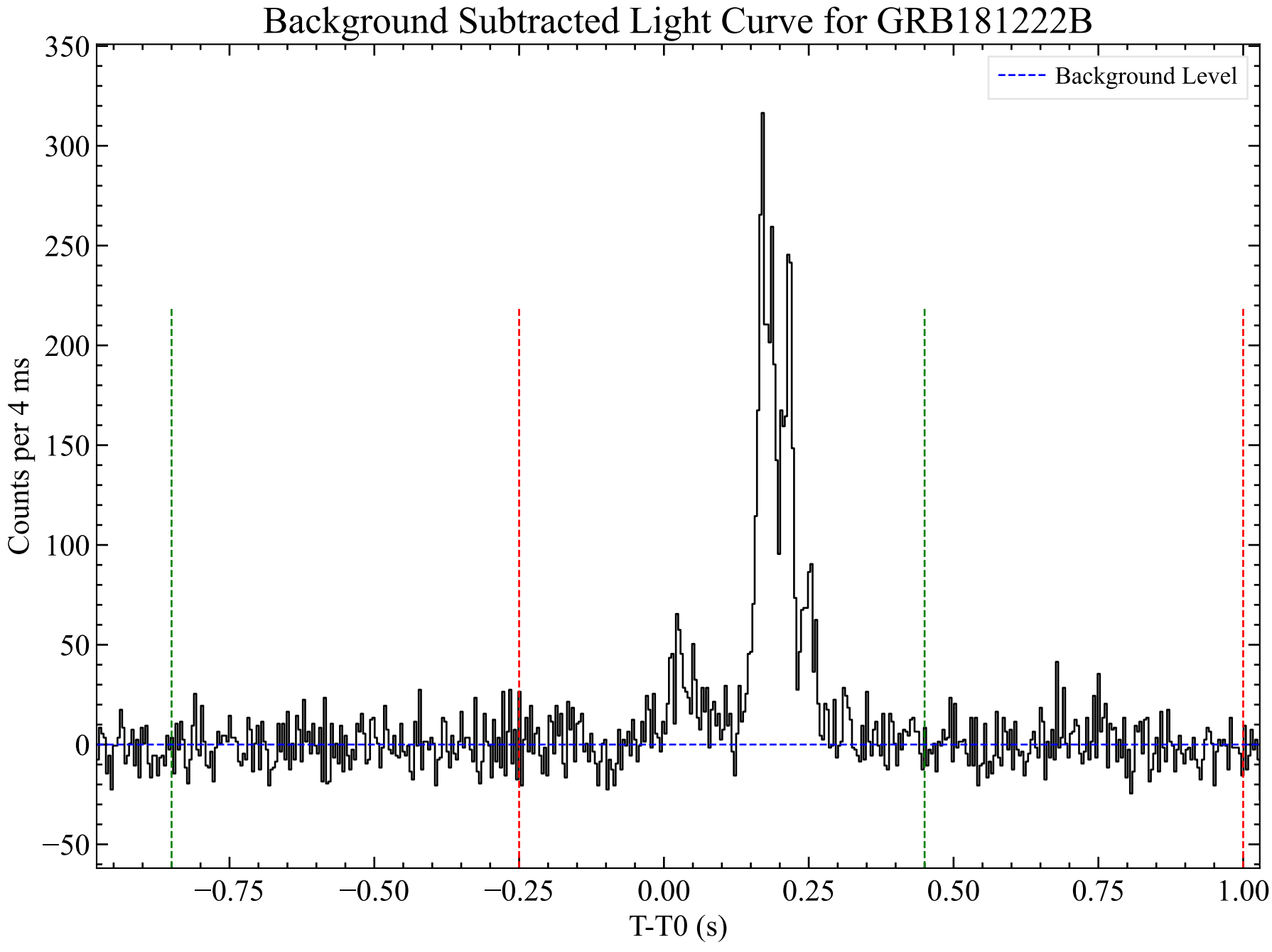
Fermi GBM reports T90 of about 0.5 s (50-300 keV)
https://gcn.gsfc.nasa.gov/gcn3/23551.gcn3

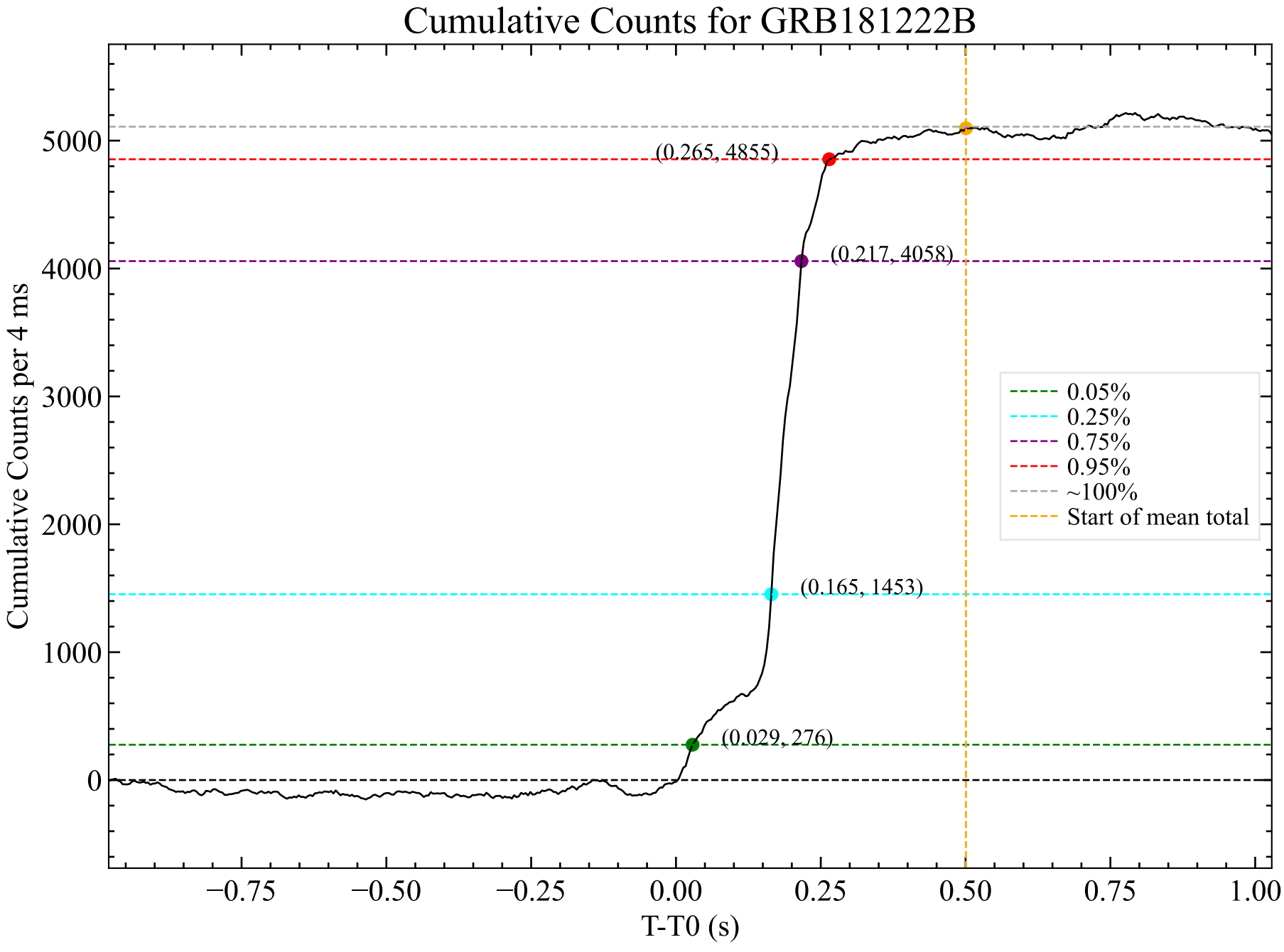
T90 estimations (binsize, Start time of the estimation of the mean total counts, T90):
- 0.001s, T0+0.5 s: 0.244 s
- 0.002s, T0+0.5 s: 0.246 s
- 0.004s, T0+0.5 s: 0.236 s
- 0.008s, T0+0.5 s: 0.232 s
- 0.016s, T0+0.5 s: 0.224 s

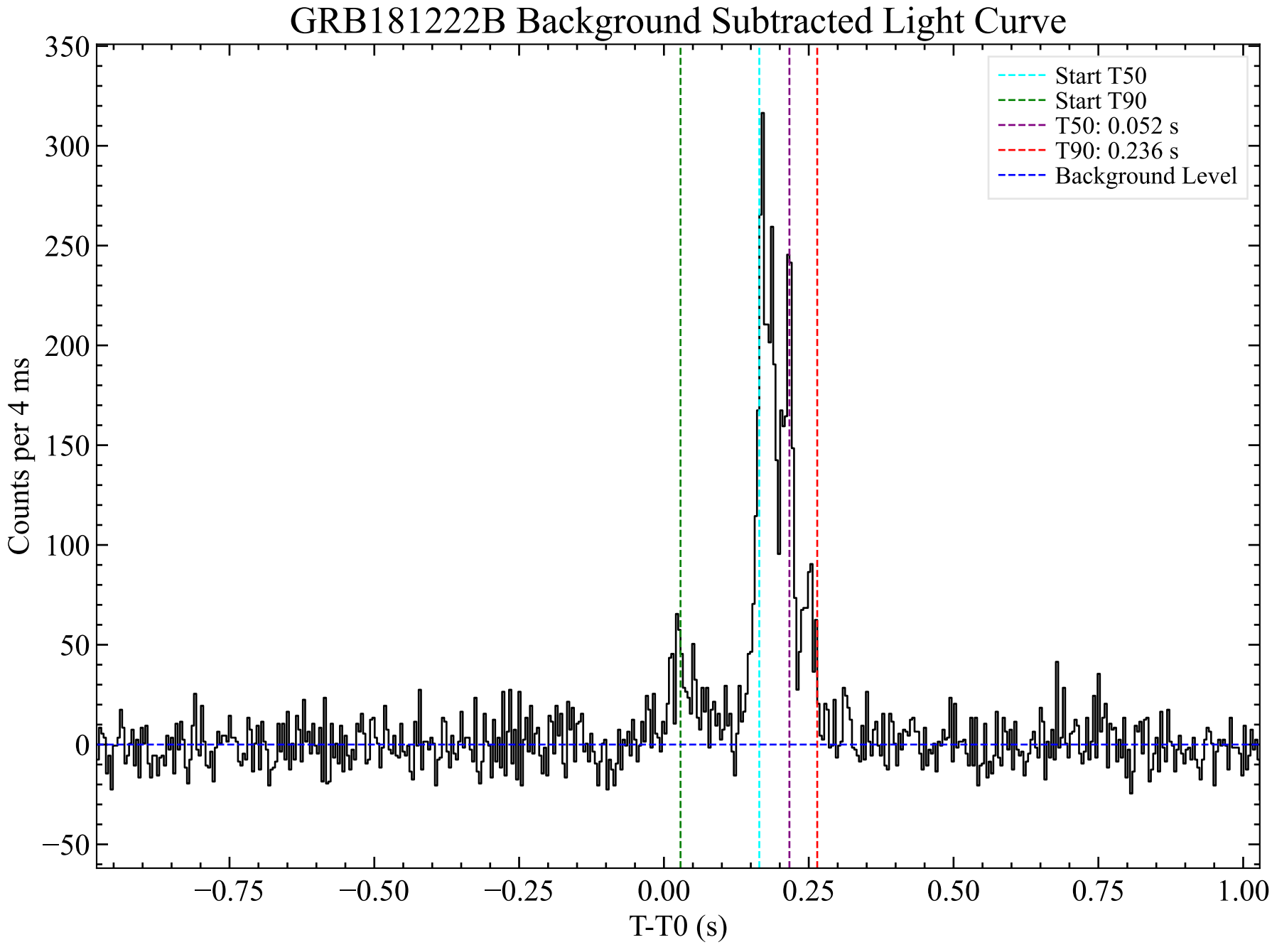
T50 estimations (binsize, mean_start_time, T50):
- 0.001s, T0+0.5: 0.051 s
- 0.002s, T0+0.5: 0.052 s
- 0.004s, T0+0.5: 0.052 s
- 0.008s, T0+0.5: 0.048 s
- 0.016s, T0+0.5: 0.048 s

Polynomial for background (binsize, polyCoef):
- 0.001s: 10.863
- 0.002s: 21.725
- 0.004s: 43.537
- 0.008s: 87.097
- 0.016s: 174.268


Light Curve for GRB181222B
Background Level
Counts per 4 ms
Time from T0 (s)
0
50
100
150
200
250
300
350
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00


Background Subtracted Light Curve for GRB181222B
Background Level
Counts per 4 ms
T-T0 (s)
350
300
250
200
150
100
50
0
−50
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00


Cumulative Counts for GRB181222B
Cumulative Counts per 4 ms
T-T0 (s)
5000
4000
3000
2000
1000
0
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00
(0.265, 4855)
(0.217, 4058)
(0.165, 1453)
(0.029, 276)
0.05%
0.25%
0.75%
0.95%
~100%
Start of mean total


GRB181222B Background Subtracted Light Curve
Start T50
Start T90
T50: 0.052 s
T90: 0.236 s
Background Level
Counts per 4 ms
T-T0 (s)
350
300
250
200
150
100
50
0
−50
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00