Update

1M signal events with incl. tag side

B+ → K+ tau- mu+
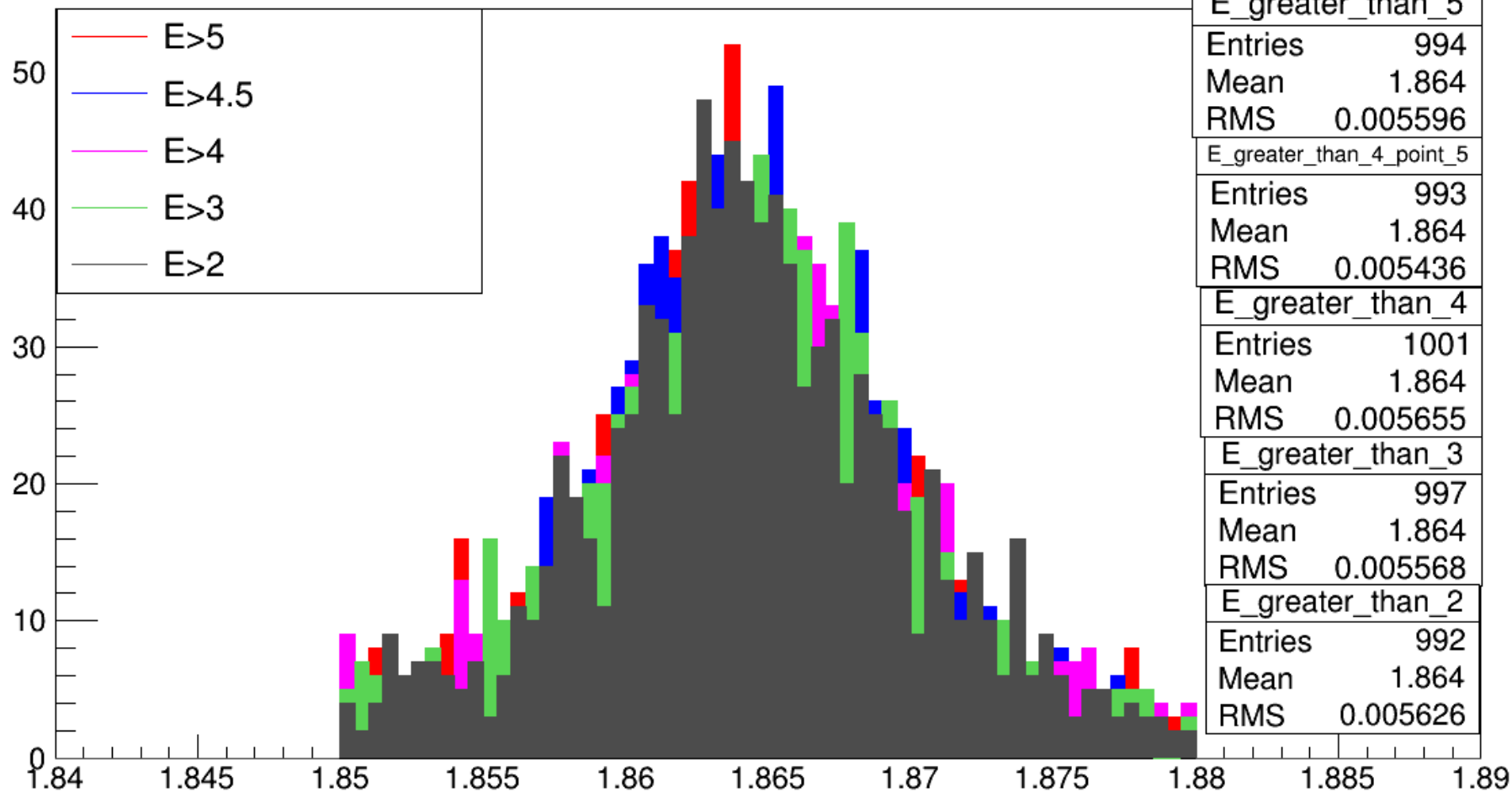
09 Oct. 2023

Photon Cuts
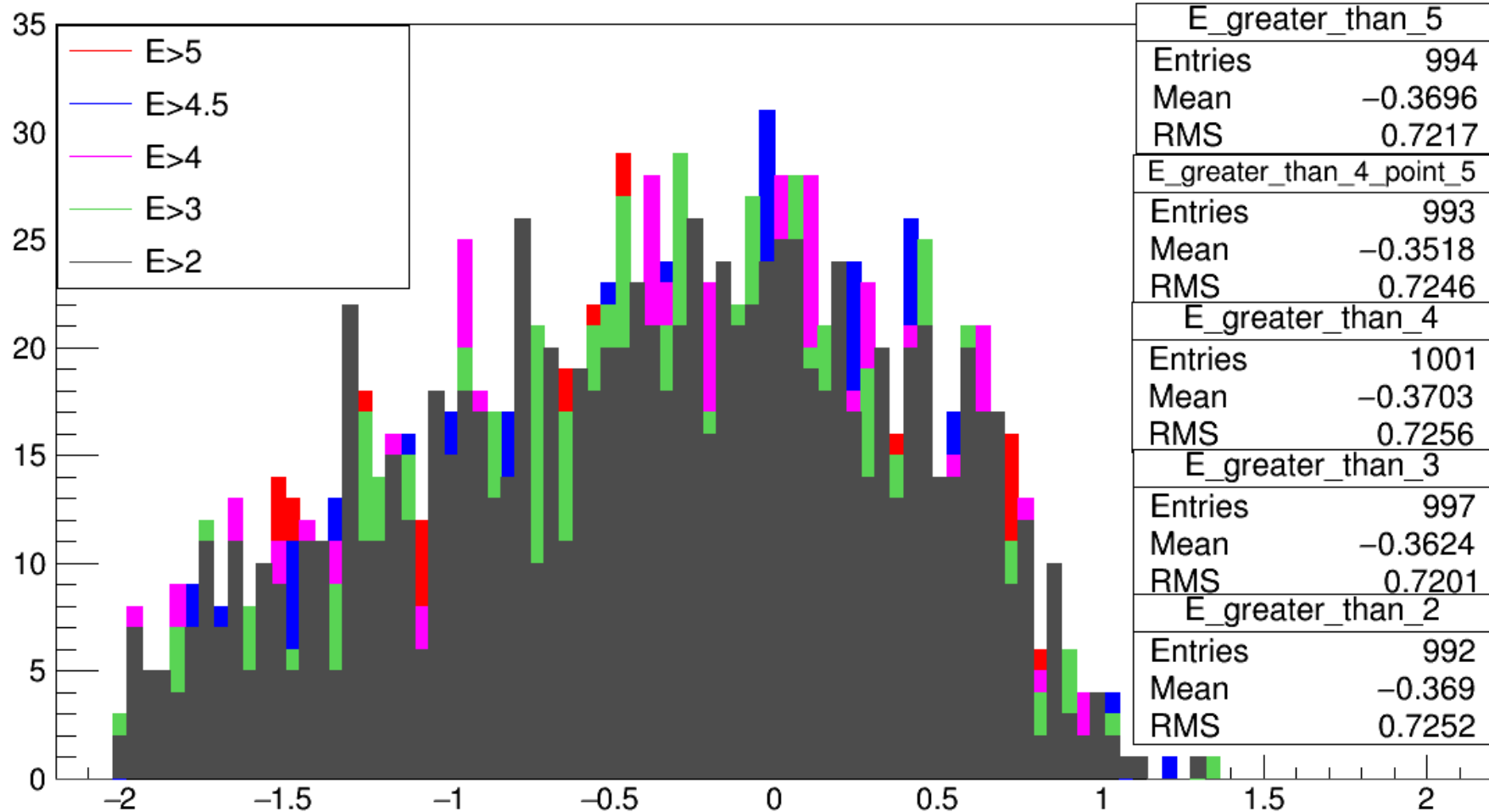
```
ipTracks     = ('IPtracks', '[abs(d0) < 2] and [abs(z0) < 5] and nCDCHits > 0', '', '')
goodPhotons = '[goodBelleGamma == 1] and E > 5 and [abs(clusterTiming) < 20]'
goodROEGamma = ('ROESel', '[abs(d0) < 1] and [abs(z0) < 3]', goodPhotons, '')
goodROEKLM   = ('RoeKLM', '[abs(d0) < 1] and [abs(z0) < 3]', '', 'nKLMClusterTrackMatches == 0')

ma.appendROEMasks('B0:sig1', [ipTracks, goodROEGamma, goodROEKLM], path=mypath)
```

m_D

E_greater_than_5	
Entries	994
Mean	1.864
RMS	0.005596

E_greater_than_4_point_5	
Entries	993
Mean	1.864
RMS	0.005436

E_greater_than_4	
Entries	1001
Mean	1.864
RMS	0.005655

E_greater_than_3	
Entries	997
Mean	1.864
RMS	0.005568

E_greater_than_2	
Entries	992
Mean	1.864
RMS	0.005626

Legend:
- E>5
- E>4.5
- E>4
- E>3
- E>2

cos_pBtag_DItag

Legend:
- E>5 (red)
- E>4.5 (blue)
- E>4 (magenta)
- E>3 (green)
- E>2 (gray)

E_greater_than_5	
Entries	994
Mean	−0.3696
RMS	0.7217

E_greater_than_4_point_5	
Entries	993
Mean	−0.3518
RMS	0.7246

E_greater_than_4	
Entries	1001
Mean	−0.3703
RMS	0.7256

E_greater_than_3	
Entries	997
Mean	−0.3624
RMS	0.7201

E_greater_than_2	
Entries	992
Mean	−0.369
RMS	0.7252

To do next

- Checking without this E cut.