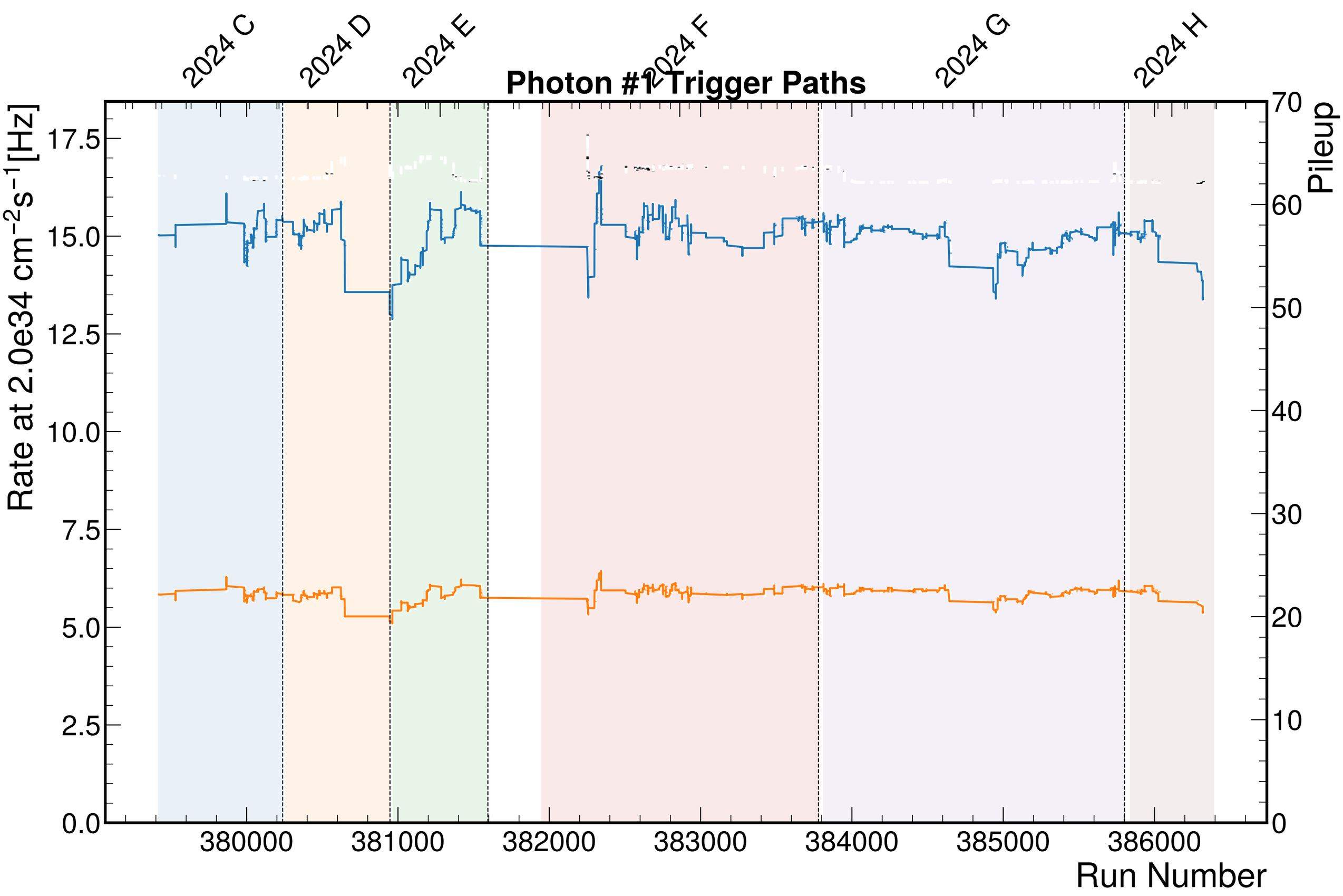
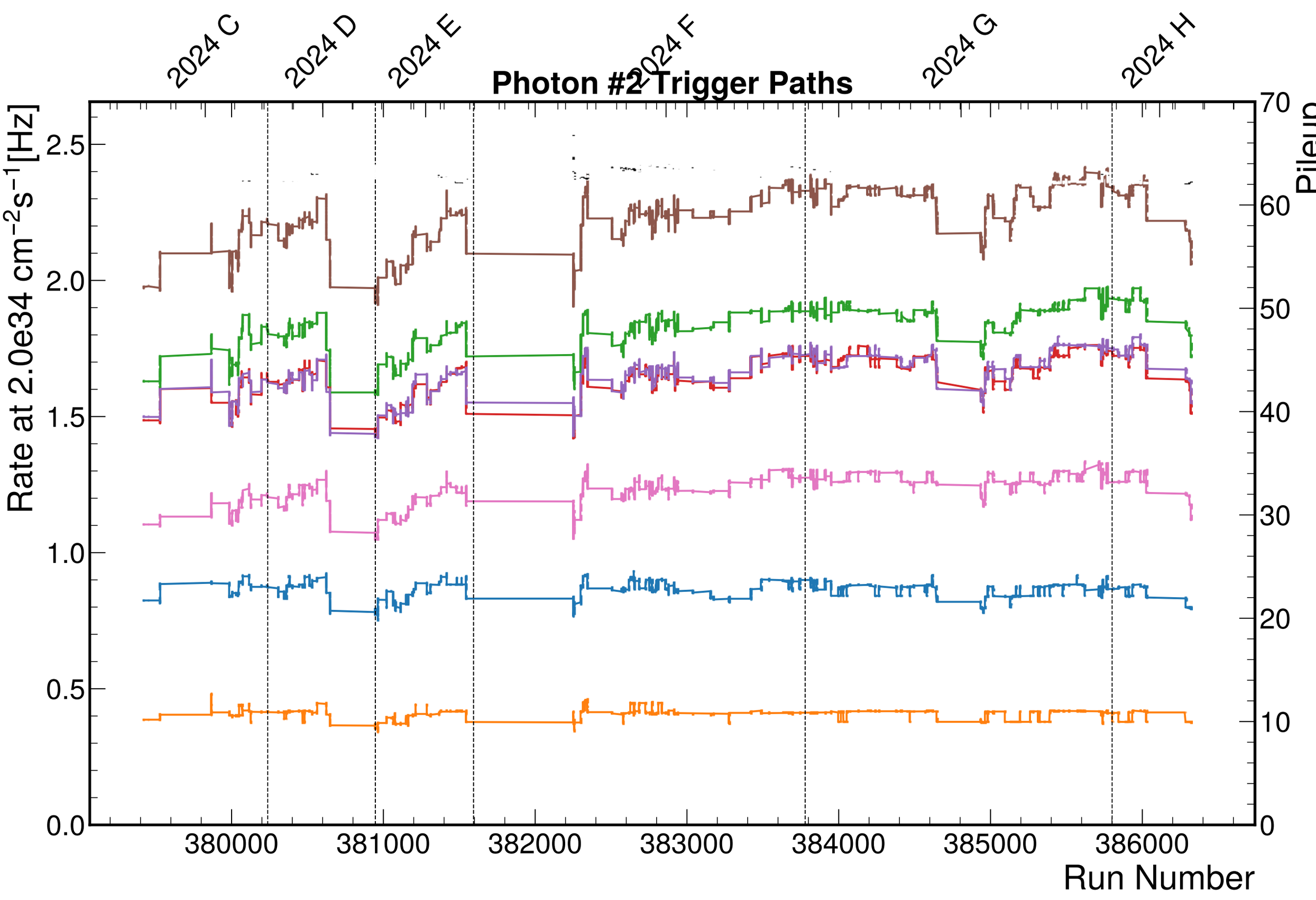


Photon #1 Trigger Paths
2024 C
2024 D
2024 E
2024 F
2024 G
2024 H
Rate at 2.0e34 cm^{-2}s^{-1}[Hz]
Pileup
Run Number
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
0
10
20
30
40
50
60
70
380000
381000
382000
383000
384000
385000
386000
HLT_Photon200
HLT_Photon300_NoHE


Photon #2 Trigger Paths
2024 C
2024 D
2024 E
2024 F
2024 G
2024 H
Rate at 2.0e34 cm^{-2}s^{-1}[Hz]
Pileup
Run Number
0.0
0.5
1.0
1.5
2.0
2.5
0
10
20
30
40
50
60
70
380000
381000
382000
383000
384000
385000
386000
HLT_Photon120_R9Id90_HE10_IsoM
HLT_Photon50_R9Id90_HE10_IsoM
HLT_Photon90_R9Id90_HE10_IsoM
HLT_Photon75_R9Id90_HE10_IsoM
HLT_Photon165_R9Id90_HE10_IsoM
HLT_Photon120
HLT_Photon175

2024 C
2024 D
2024 E
2024 F
2024 G
2024 H

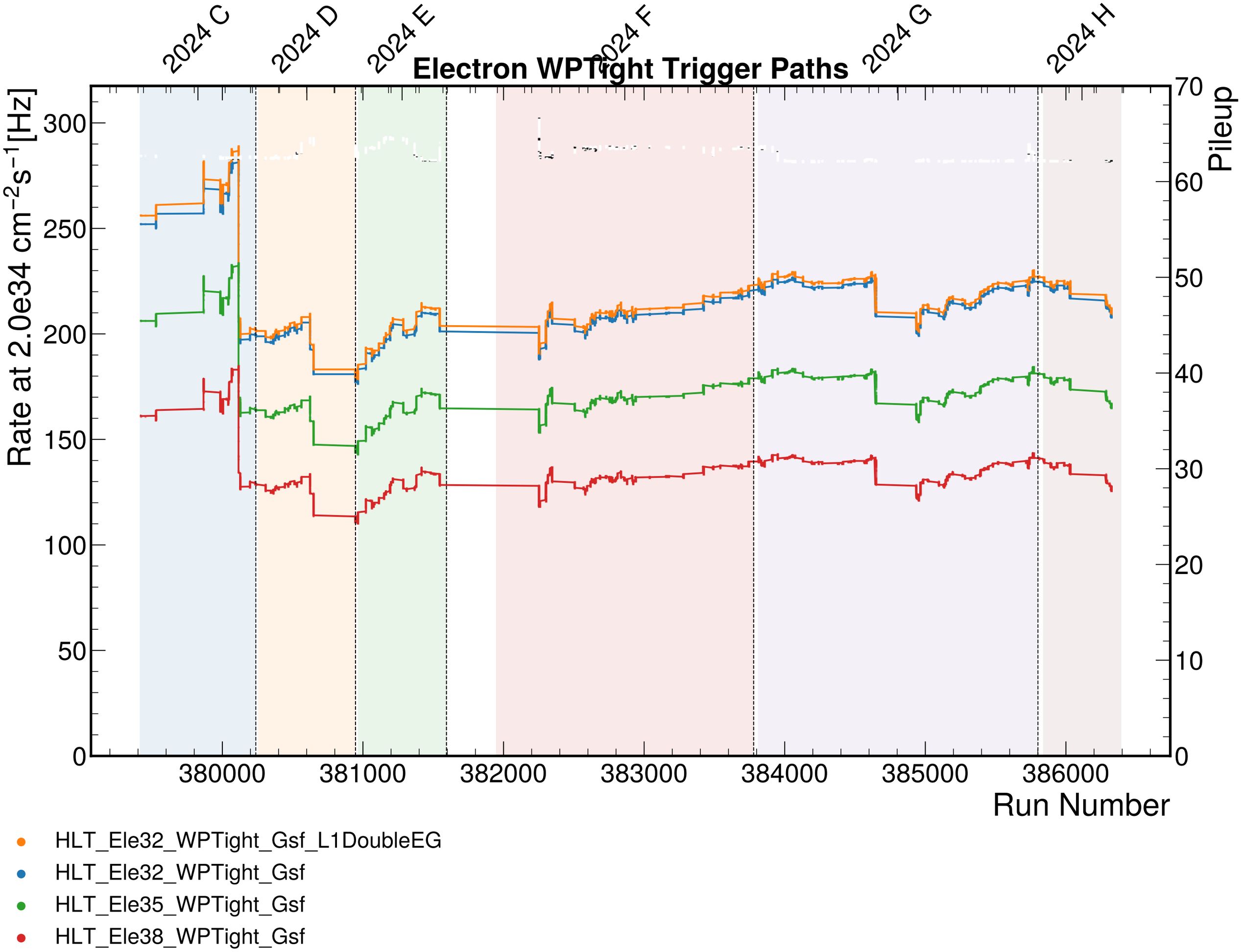
DiPhoton Trigger Paths

Rate at 2.0e34 $cm^{-2}s^{-1}$[Hz]

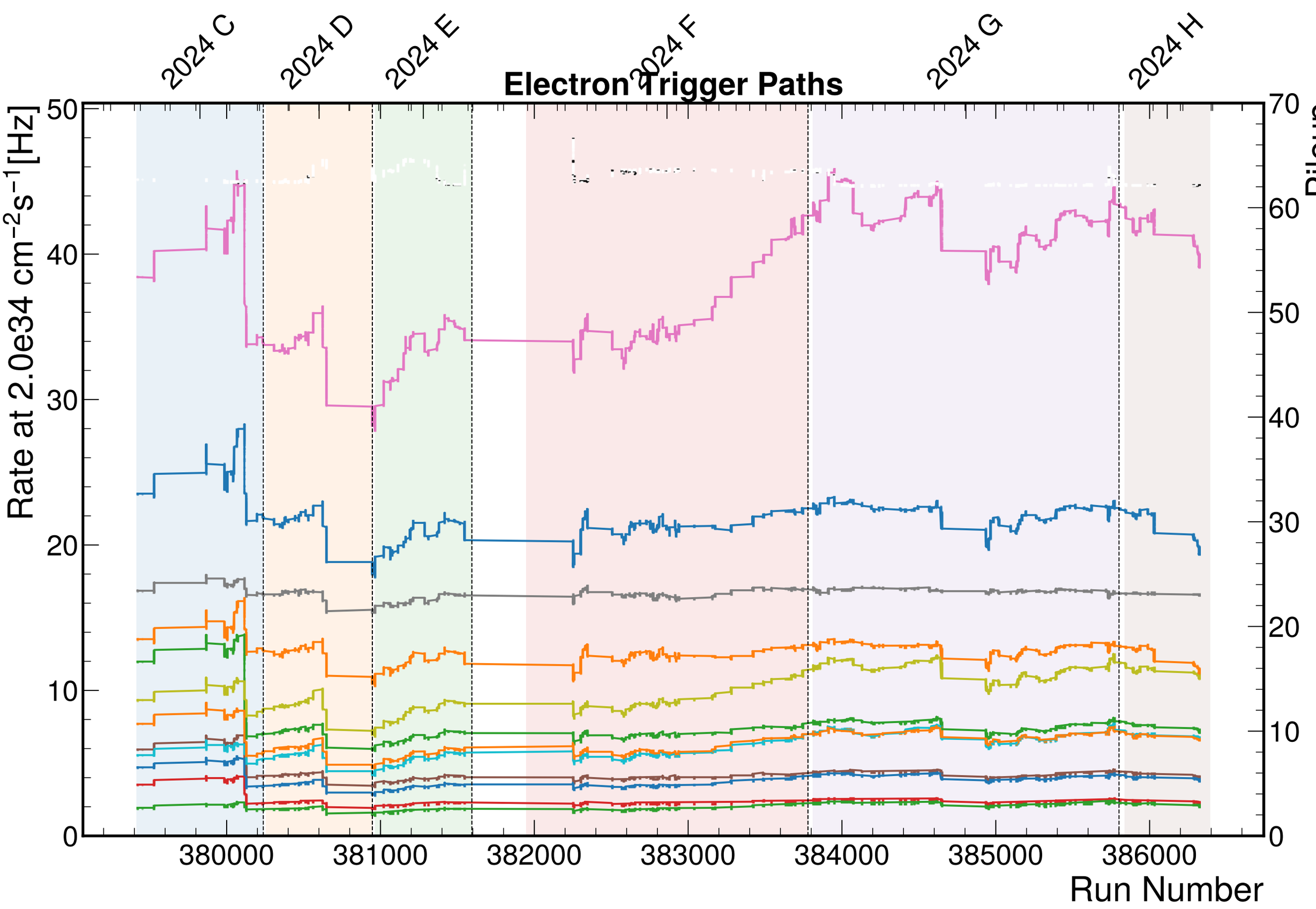
Pileup

Run Number

- HLT_Diphoton30_22_R9Id_OR_IsoCaloId_AND_HE_R9Id_Mass90
- HLT_Diphoton30_22_R9Id_OR_IsoCaloId_AND_HE_R9Id_Mass95
- HLT_Diphoton30_18_R9IdL_AND_HE_AND_IsoCaloId



Electron WPTight Trigger Paths
2024 C
2024 D
2024 E
2024 F
2024 G
2024 H
Rate at 2.0e34 cm^{-2}s^{-1}[Hz]
Pileup
Run Number
0
50
100
150
200
250
300
0
10
20
30
40
50
60
70
380000
381000
382000
383000
384000
385000
386000
HLT_Ele32_WPTight_Gsf_L1DoubleEG
HLT_Ele32_WPTight_Gsf
HLT_Ele35_WPTight_Gsf
HLT_Ele38_WPTight_Gsf



- HLT_Ele23_Ele12_CaloIdL_TrackIdL_IsoVL
- HLT_Ele115_CaloIdVT_GsfTrkIdT
- HLT_Ele23_Ele12_CaloIdL_TrackIdL_IsoVL_DZ
- HLT_Ele135_CaloIdVT_GsfTrkIdT
- HLT_Ele15_IsoVVVL_PFHT450
- HLT_Ele12_CaloIdL_TrackIdL_IsoVL_PFJet30
- HLT_Ele8_CaloIdM_TrackIdM_PFJet30
- HLT_Ele8_CaloIdL_TrackIdL_IsoVL_PFJet30
- HLT_Ele50_IsoVVVL_PFHT450
- HLT_Ele17_CaloIdM_TrackIdM_PFJet30
- HLT_Ele15_IsoVVVL_PFHT600
- HLT_Ele23_CaloIdL_TrackIdL_IsoVL_PFJet30
- HLT_Ele28_eta2p1_WPTight_Gsf_HT150

Double Electron Trigger Paths

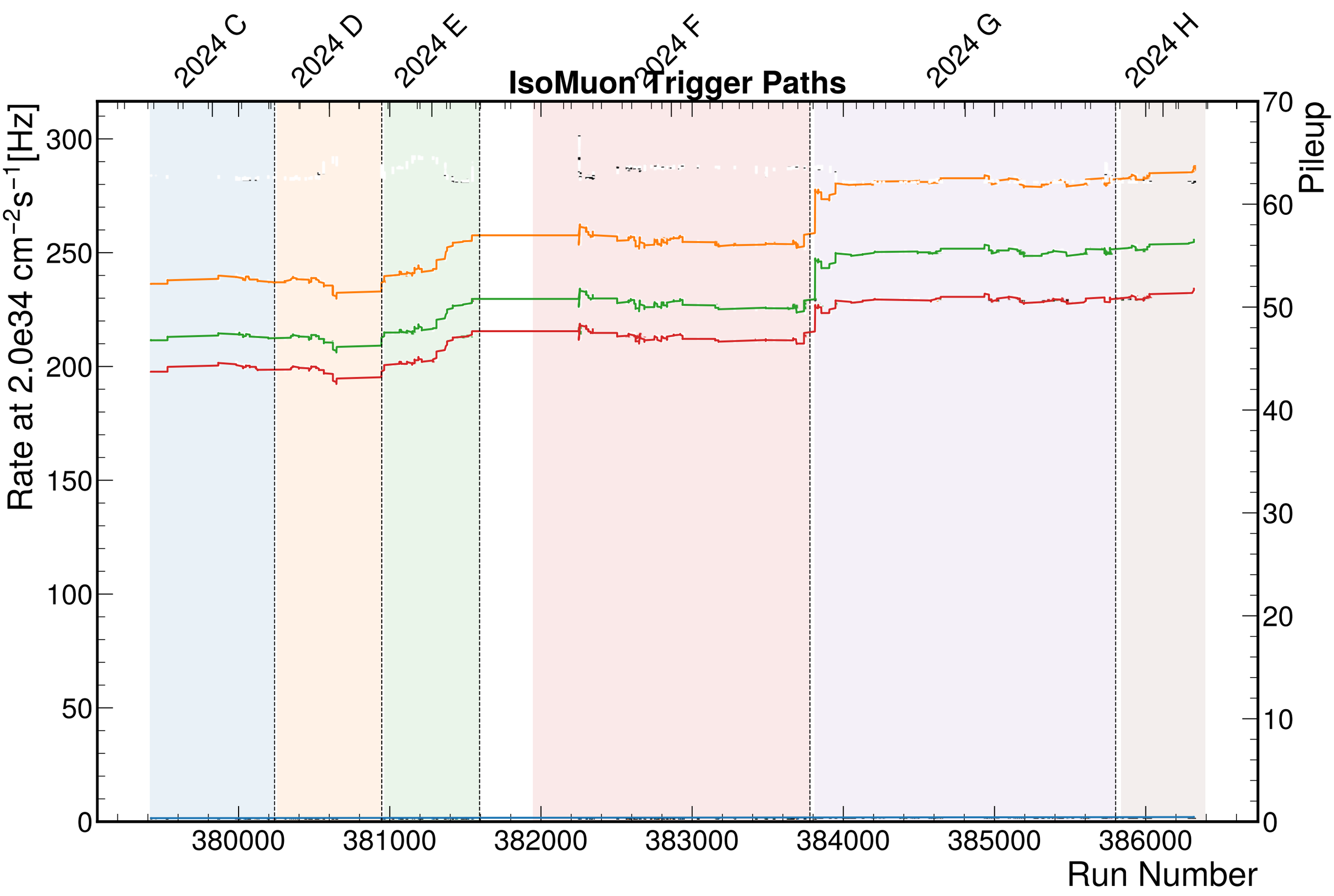
2024 C | 2024 D | 2024 E | 2024 F | 2024 G | 2024 H

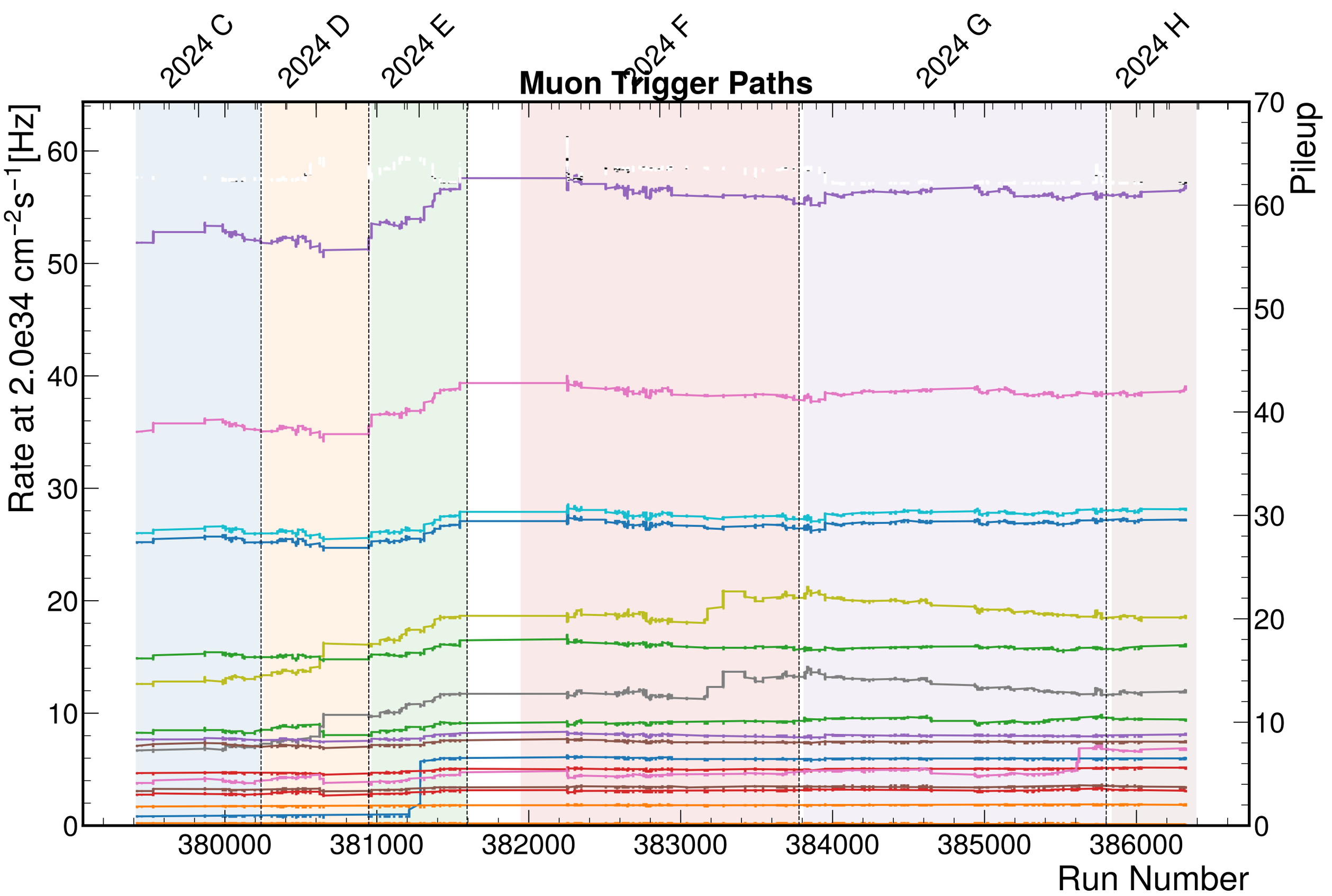
Rate at 2.0e34 $cm^{-2}s^{-1}$[Hz]

Pileup

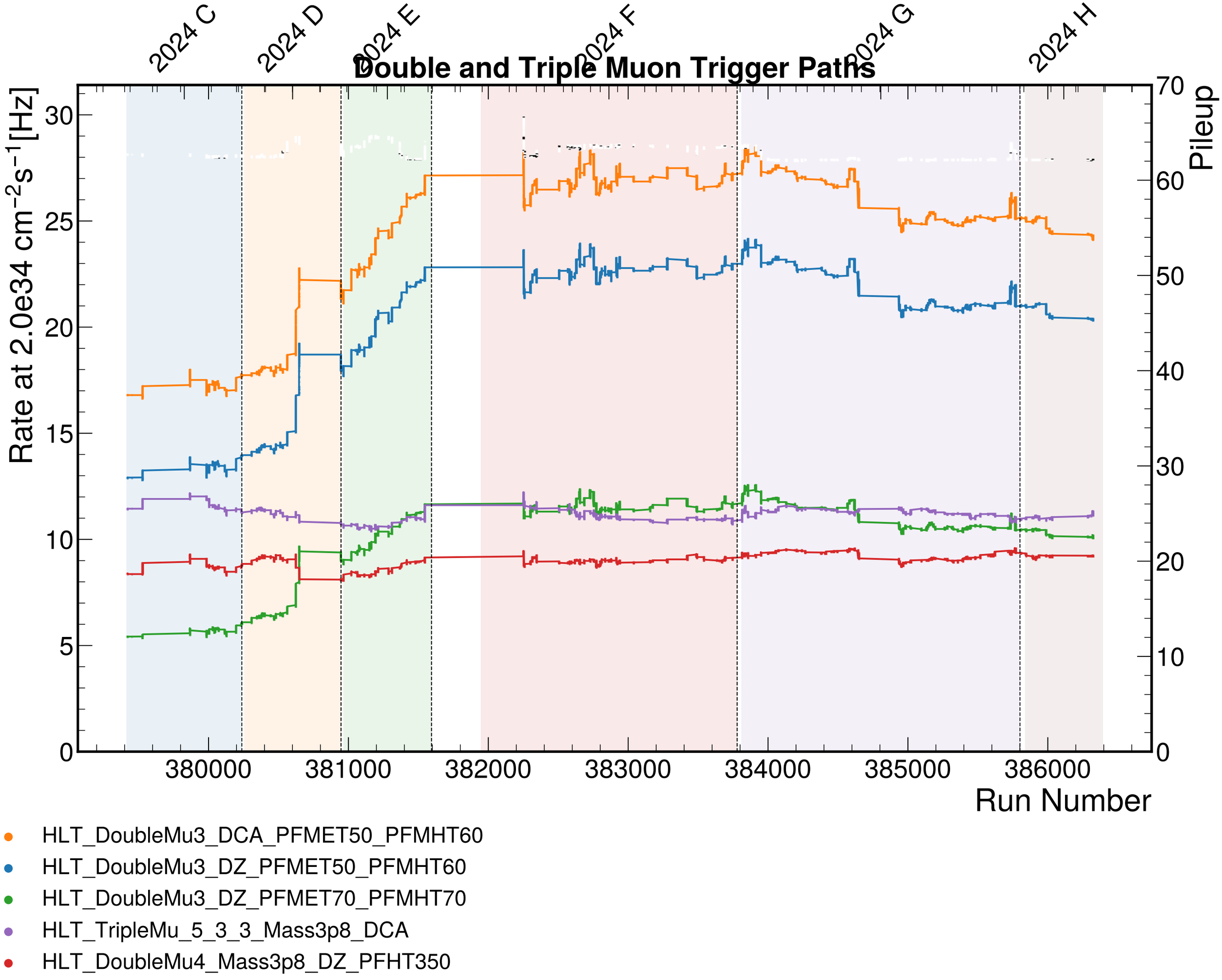
Run Number

- HLT_DoubleEle33_CaloIdL_MW
- HLT_DoubleEle8_CaloIdM_TrackIdM_Mass8_PFHT350
- HLT_DoubleEle8_CaloIdM_TrackIdM_Mass8_DZ_PFHT350

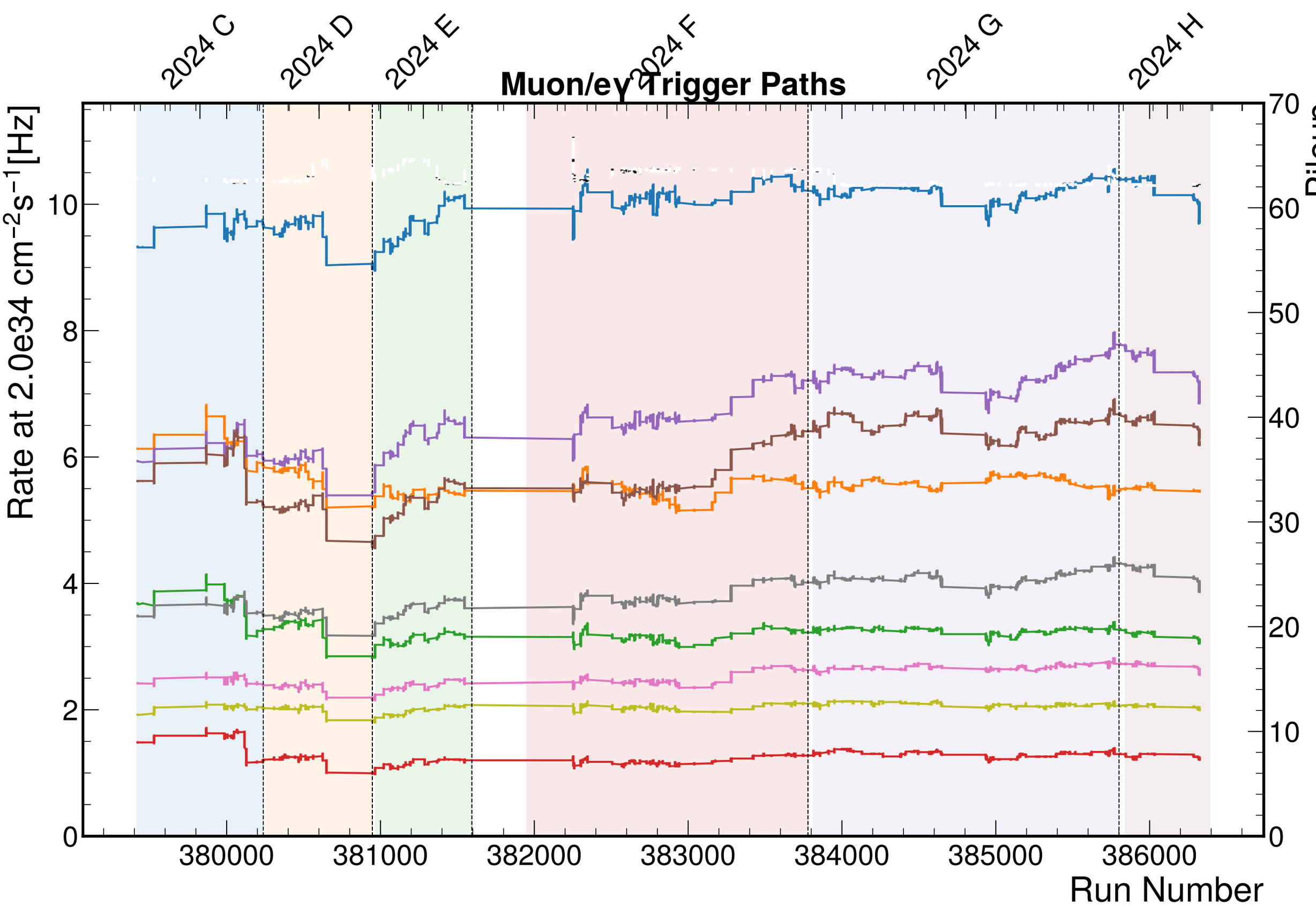

IsoMuon Trigger Paths
2024 C
2024 D
2024 E
2024 F
2024 G
2024 H
Rate at 2.0e34 cm^{-2}s^{-1}[Hz]
Pileup
Run Number
300
250
200
150
100
50
0
70
60
50
40
30
20
10
0
380000
381000
382000
383000
384000
385000
386000
HLT_IsoMu24
HLT_IsoMu24_eta2p1
HLT_IsoMu27
HLT_IsoMu20



- HLT_Mu50
- HLT_Mu55
- HLT_Mu17_TrkIsoVVL_Mu8_TrkIsoVVL_DZ_Mass3p8
- HLT_Mu17_TrkIsoVVL_Mu8_TrkIsoVVL_DZ_Mass8
- HLT_Mu3er1p5_PFJet100er2p5_PFMETNoMu100_PFMHTNoMu100_IDTight
- HLT_Mu37_TkMu27
- HLT_Mu3er1p5_PFJet100er2p5_PFMET100_PFMHT100_IDTight
- HLT_Mu15_IsoVVVL_PFHT450
- HLT_Mu17
- HLT_Mu8
- HLT_Mu3_PFJet40
- HLT_Mu12eta2p3
- HLT_Mu8_TrkIsoVVL
- HLT_Mu50_IsoVVVL_PFHT450
- HLT_Mu15_IsoVVVL_PFHT600
- HLT_Mu17_TrkIsoVVL_Mu8_TrkIsoVVL_DZ
- HLT_Mu12eta2p3_PFJet40



Double and Triple Muon Trigger Paths
2024 C
2024 D
2024 E
2024 F
2024 G
2024 H
Rate at 2.0e34 cm^{-2}s^{-1}[Hz]
Pileup
Run Number
0
5
10
15
20
25
30
0
10
20
30
40
50
60
70
380000
381000
382000
383000
384000
385000
386000
HLT_DoubleMu3_DCA_PFMET50_PFMHT60
HLT_DoubleMu3_DZ_PFMET50_PFMHT60
HLT_DoubleMu3_DZ_PFMET70_PFMHT70
HLT_TripleMu_5_3_3_Mass3p8_DCA
HLT_DoubleMu4_Mass3p8_DZ_PFHT350



- HLT_Mu17_Photon30_IsoCaloId
- HLT_Mu8_TrkIsoVVL_Ele23_CaloIdL_TrackIdL_IsoVL_DZ
- HLT_Mu23_TrkIsoVVL_Ele12_CaloIdL_TrackIdL_IsoVL
- HLT_DiMu4_Ele9_CaloIdL_TrackIdL_DZ_Mass3p8
- HLT_Mu12_TrkIsoVVL_Ele23_CaloIdL_TrackIdL_IsoVL_DZ
- HLT_Mu8_Ele8_CaloIdM_TrackIdM_Mass8_PFHT350_DZ
- HLT_Mu23_TrkIsoVVL_Ele12_CaloIdL_TrackIdL_IsoVL_DZ
- HLT_Mu37_Ele27_CaloIdL_MW
- HLT_Mu8_Ele8_CaloIdM_TrackIdM_Mass8_PFHT350

Tau Trigger Paths

2024 C | 2024 D | 2024 E | 2024 F | 2024 G | 2024 H

Rate at 2.0e34 $cm^{-2}s^{-1}$ [Hz]

Pileup

Run Number

- HLT_DoubleMediumDeepTauPFTauHPS35_L2NN_eta2p1
- HLT_DoubleMediumDeepTauPFTauHPS30_L2NN_eta2p1_PFJet60
- HLT_DoubleMediumDeepTauPFTauHPS30_L2NN_eta2p1_PFJet75
- HLT_DoubleMediumChargedIsoDisplacedPFTauHPS32_Trk1_eta2p1

2024 C
2024 D
2024 E
2024 F
2024 G
2024 H

HT #1 Trigger Paths

Rate at 2.0e34 $cm^{-2}s^{-1}$ [Hz]

20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0

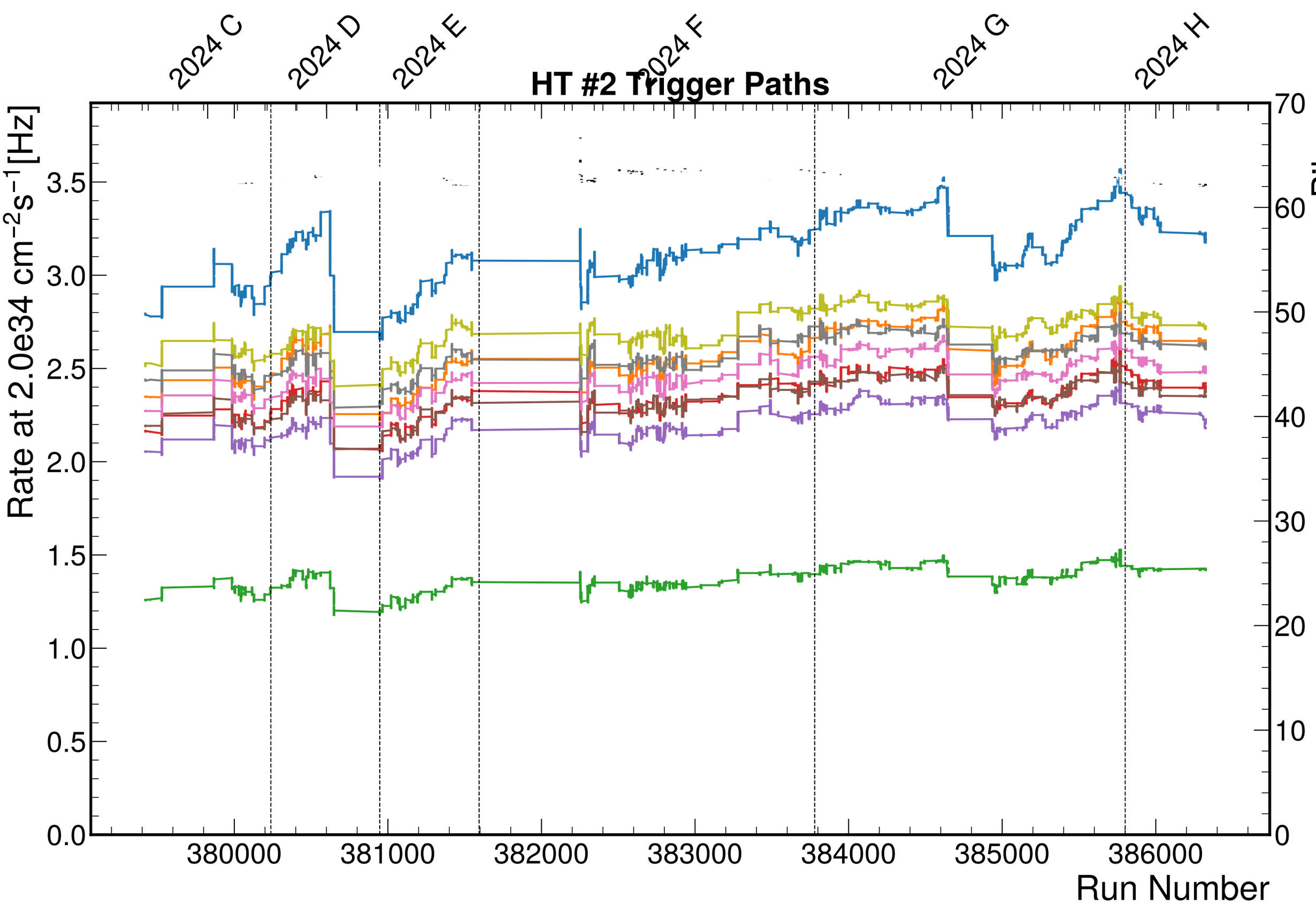
Pileup

70
60
50
40
30
20
10
0

380000
381000
382000
383000
384000
385000
386000

Run Number

- HLT_PFHT1050
- HLT_PFHT500_PFMET100_PFMHT100_IDTight
- HLT_PFHT500_PFMET110_PFMHT110_IDTight
- HLT_PFHT350


2024 C
2024 D
2024 E
2024 F
2024 G
2024 H
HT #2 Trigger Paths
Rate at 2.0e34 cm^{-2}s^{-1}[Hz]
Pileup
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
70
60
50
40
30
20
10
0
380000
381000
382000
383000
384000
385000
386000
Run Number
HLT_PFHT180
HLT_PFHT890
HLT_PFHT250
HLT_PFHT780
HLT_PFHT680
HLT_PFHT430
HLT_PFHT590
HLT_PFHT510
HLT_PFHT370

2024 C
2024 D
2024 E
2024 F
2024 G
2024 H

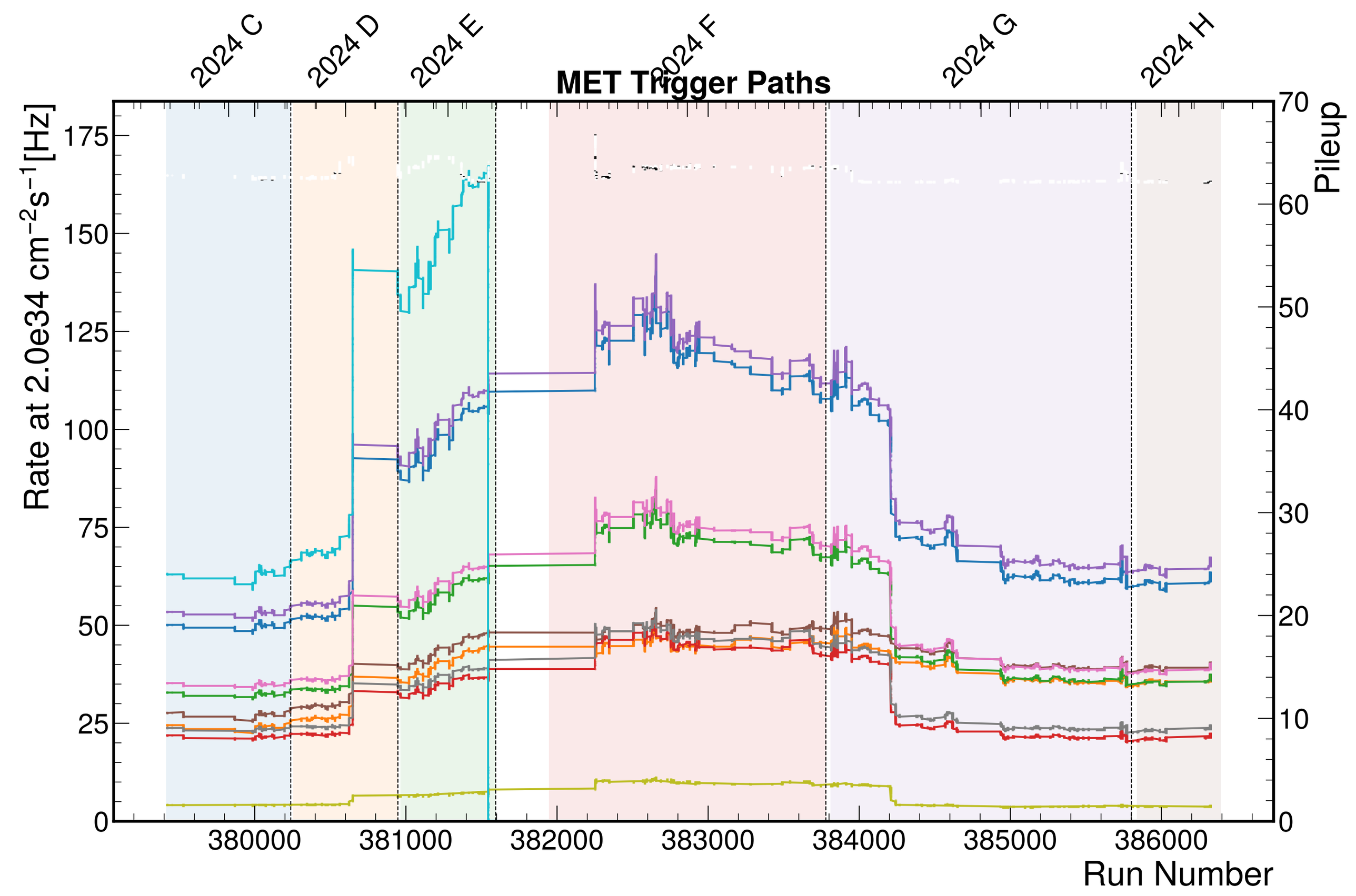
Jet Trigger Paths

Rate at 2.0e34 $cm^{-2}s^{-1}$ [Hz]

Pileup

Run Number

- HLT_AK8PFJet500
- HLT_PFJet500
- HLT_PFJet140



- HLT_PFMETNoMu110_PFMHTNoMu110_IDTight_FilterHF
- HLT_PFMETNoMu120_PFMHTNoMu120_IDTight
- HLT_PFMET120_PFMHT120_IDTight
- HLT_PFMETNoMu130_PFMHTNoMu130_IDTight
- HLT_PFMET130_PFMHT130_IDTight
- HLT_PFMETNoMu120_PFMHTNoMu120_IDTight_PFHT60
- HLT_PFMETNoMu140_PFMHTNoMu140_IDTight
- HLT_PFMET140_PFMHT140_IDTight
- HLT_PFMET120_PFMHT120_IDTight_PFHT60
- HLT_PFMET200_BeamHaloCleaned