Some MCenter/NOvA Beam Characteristics

Mike Wallbank
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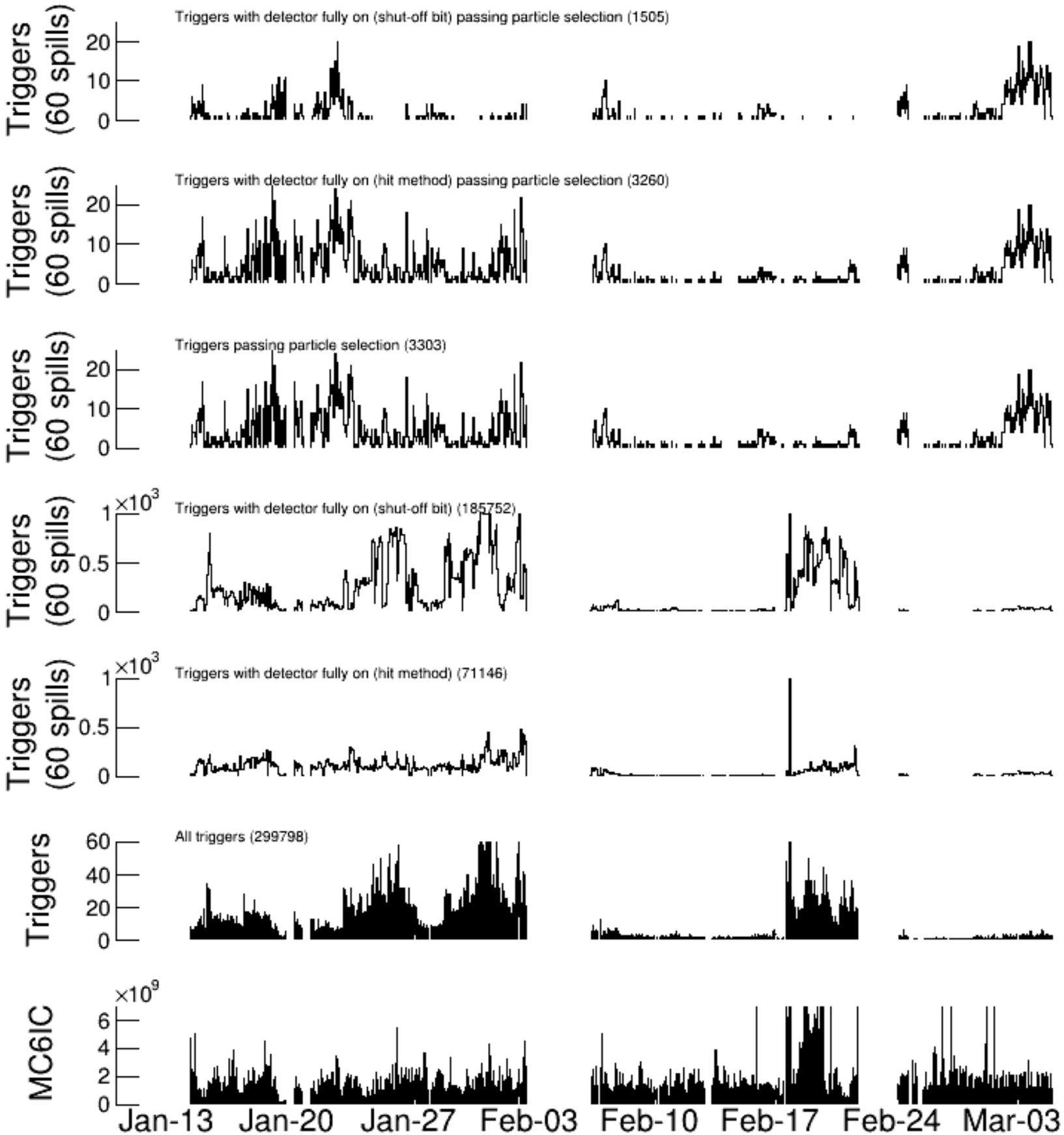
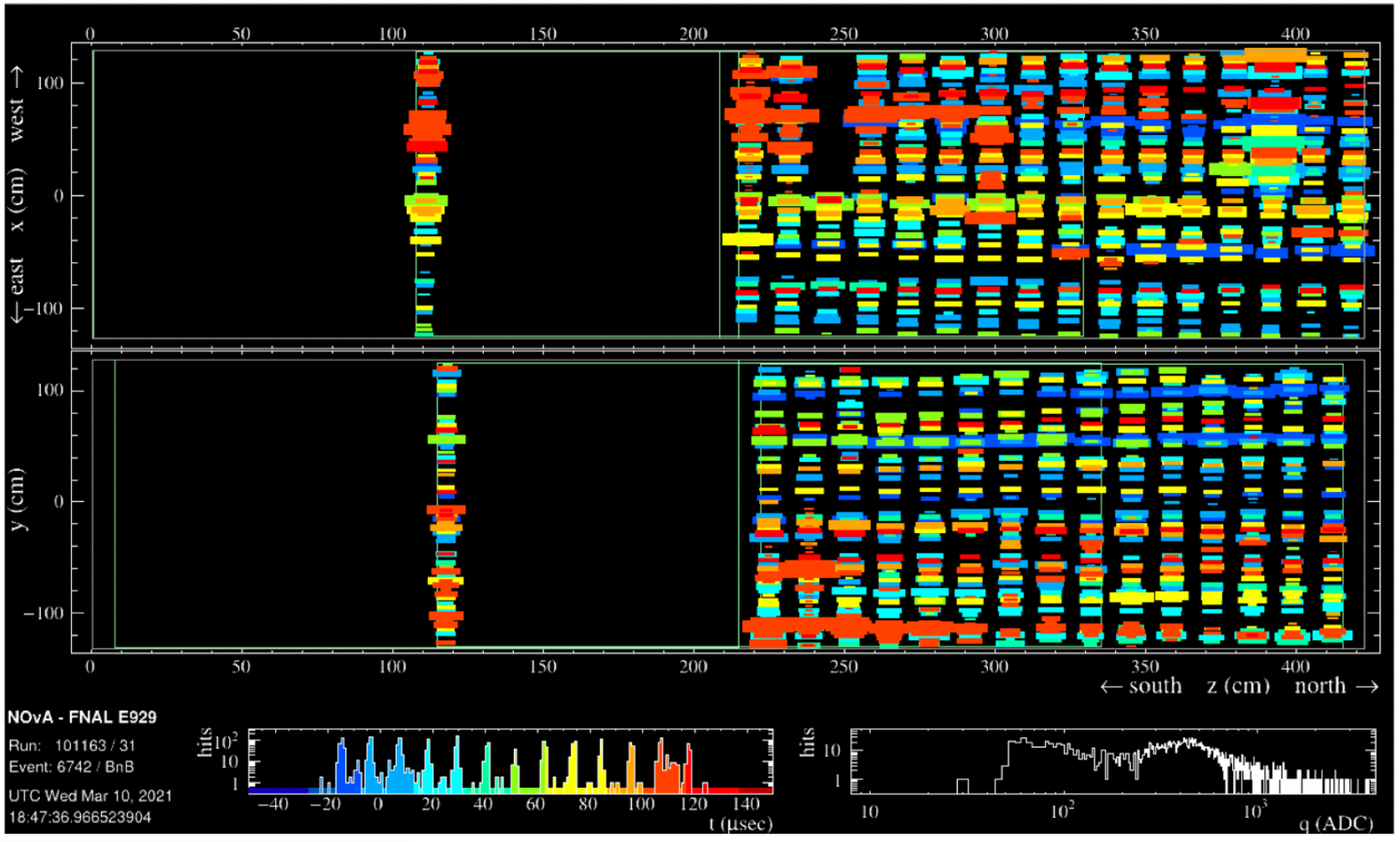
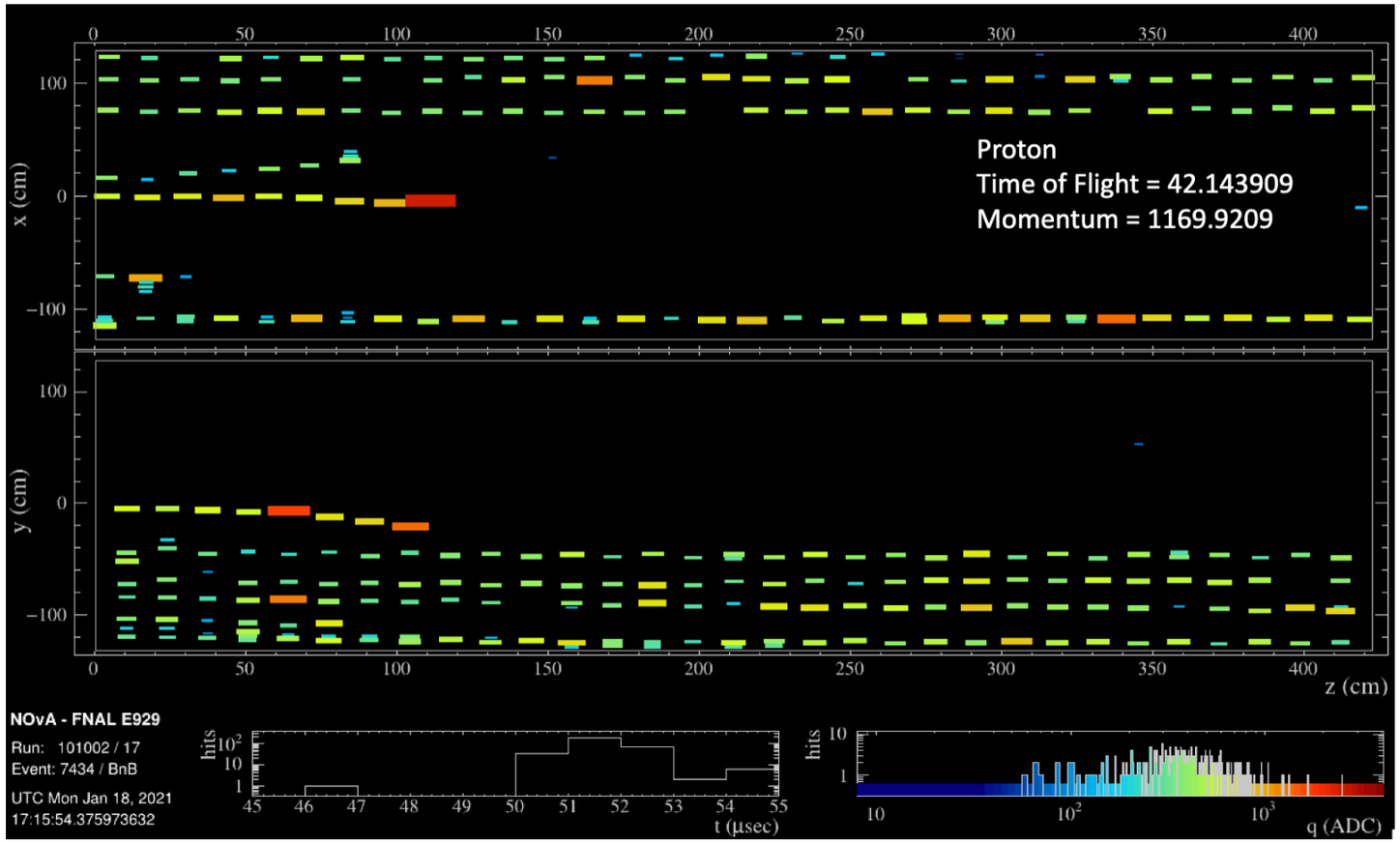
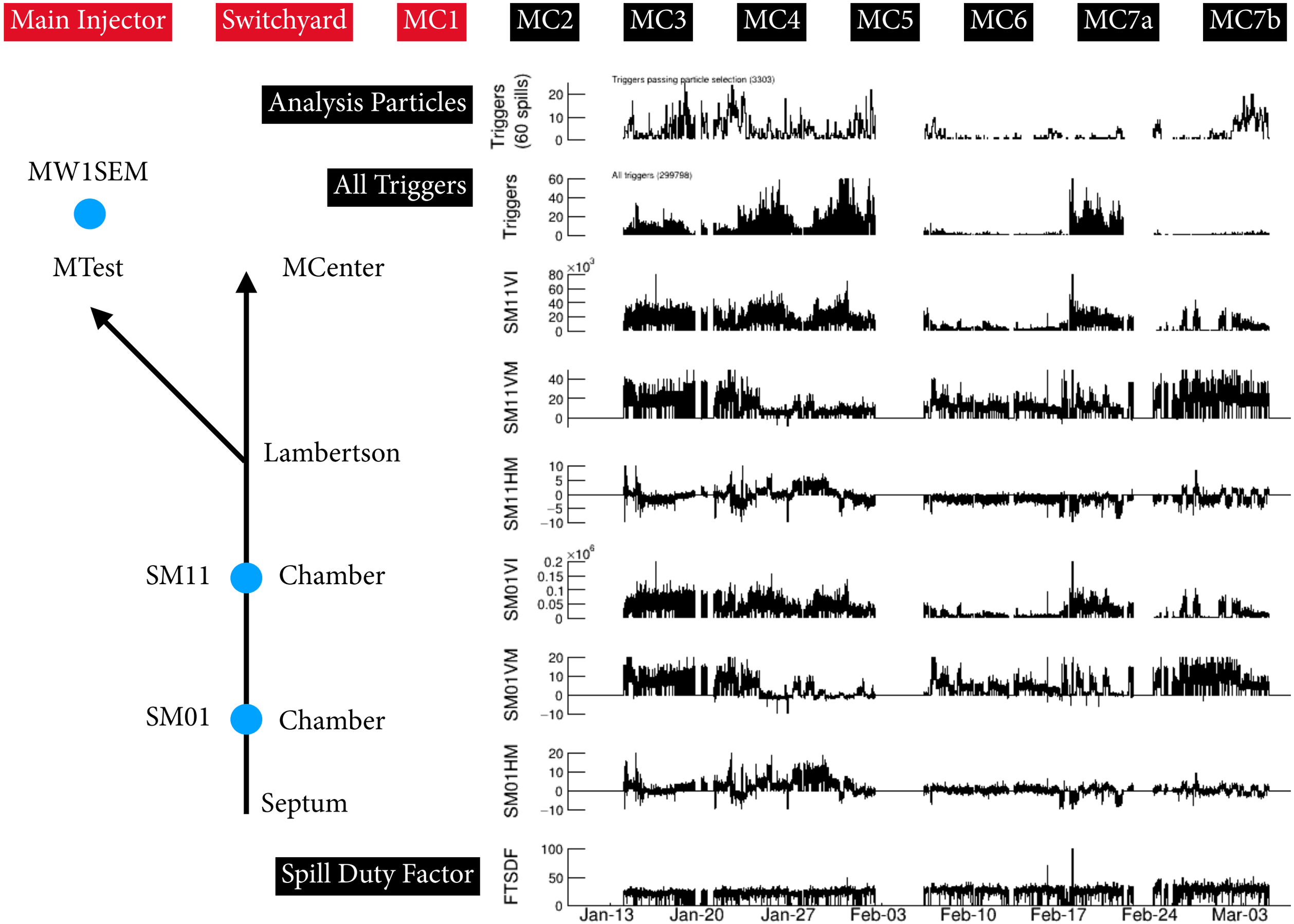
NOvA Test Beam/AD Coordination Meeting, 3/10/2021

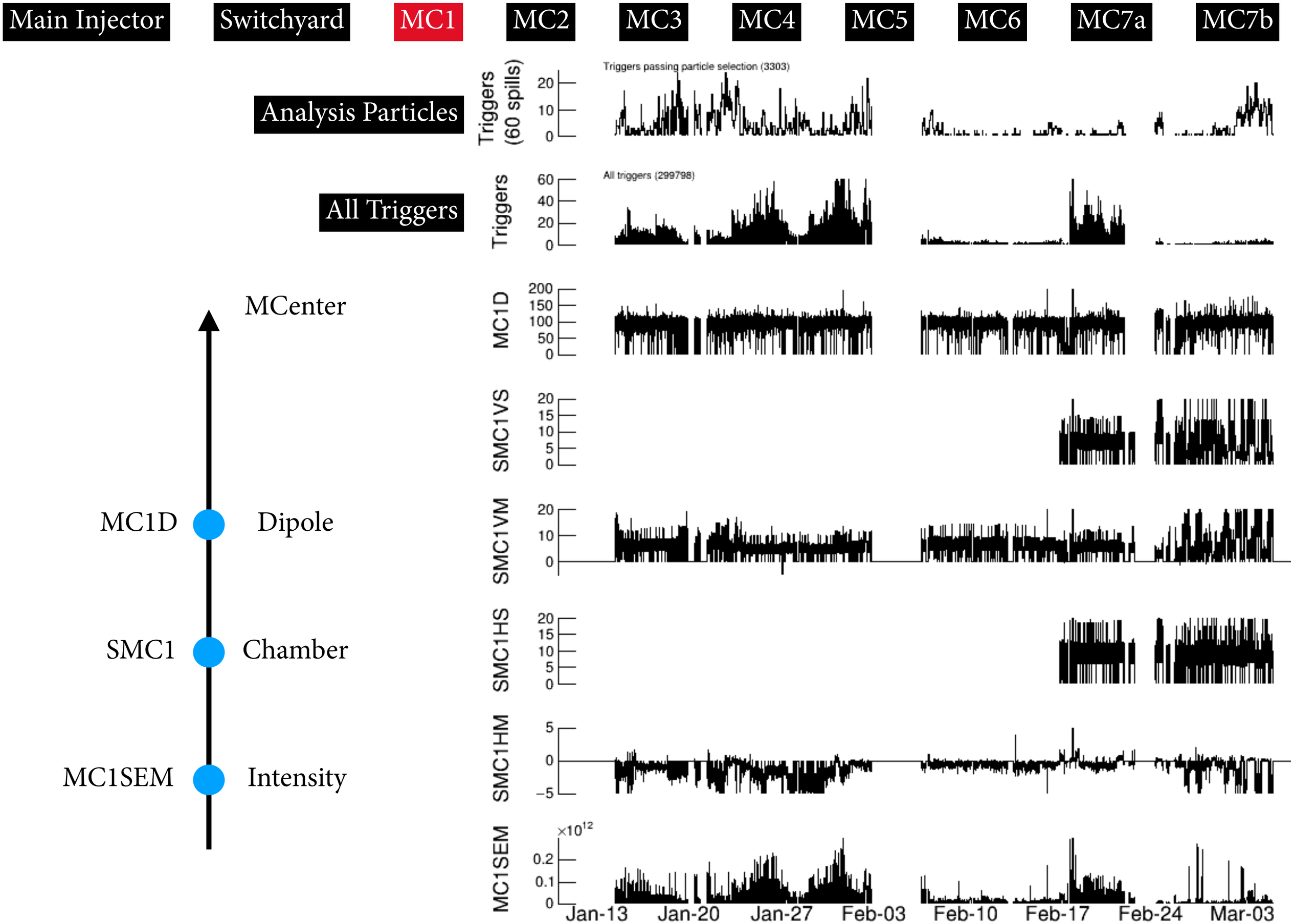

Triggers with detector fully on (shut-off bit) passing particle selection (1505)
Triggers with detector fully on (hit method) passing particle selection (3260)
Triggers passing particle selection (3303)
Triggers with detector fully on (shut-off bit) (185752)
Triggers with detector fully on (hit method) (71146)
All triggers (299798)
Triggers (60 spills)
Triggers
MC6IC
×10^3
×10^9
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03

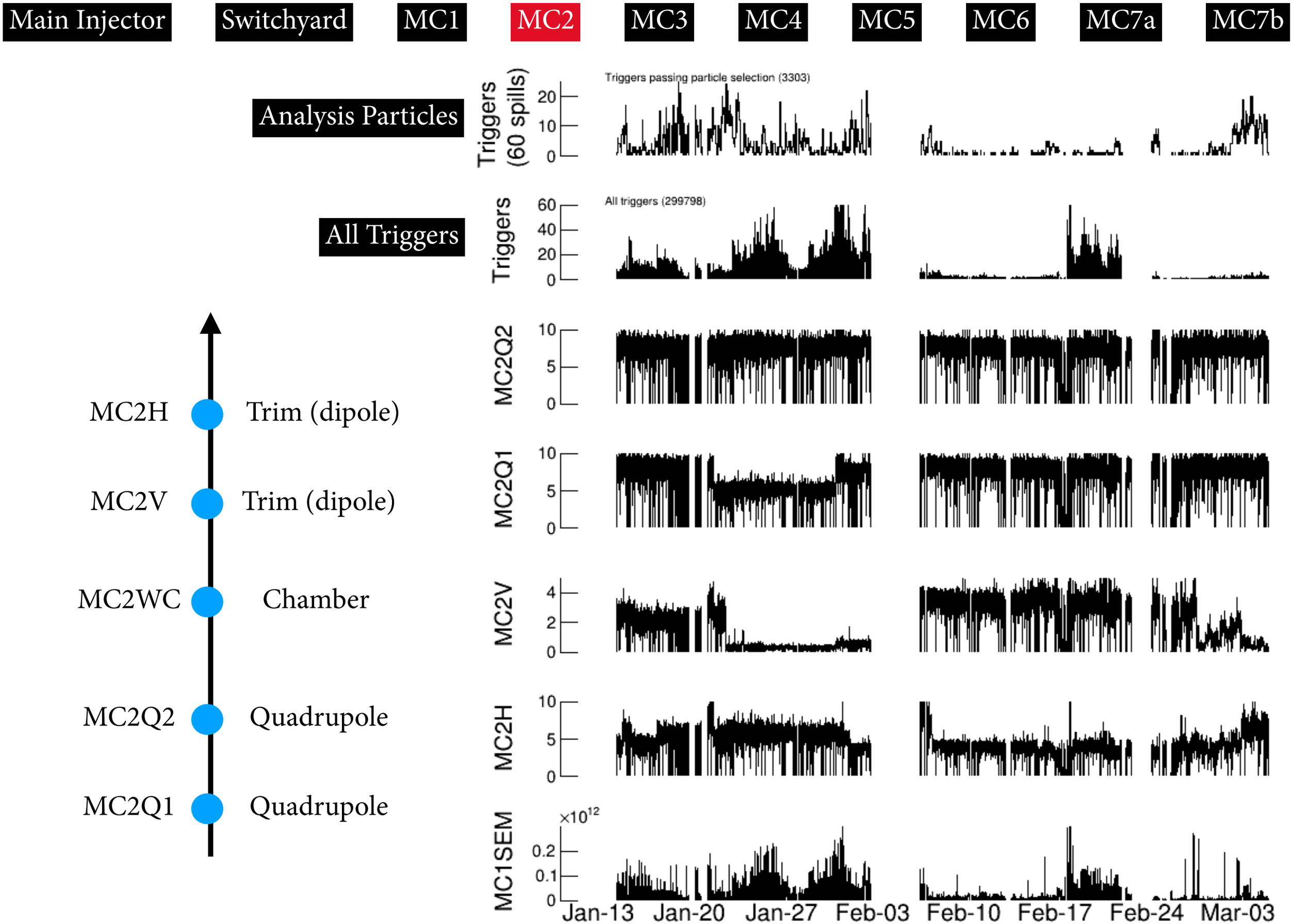
NOvA Detector Data

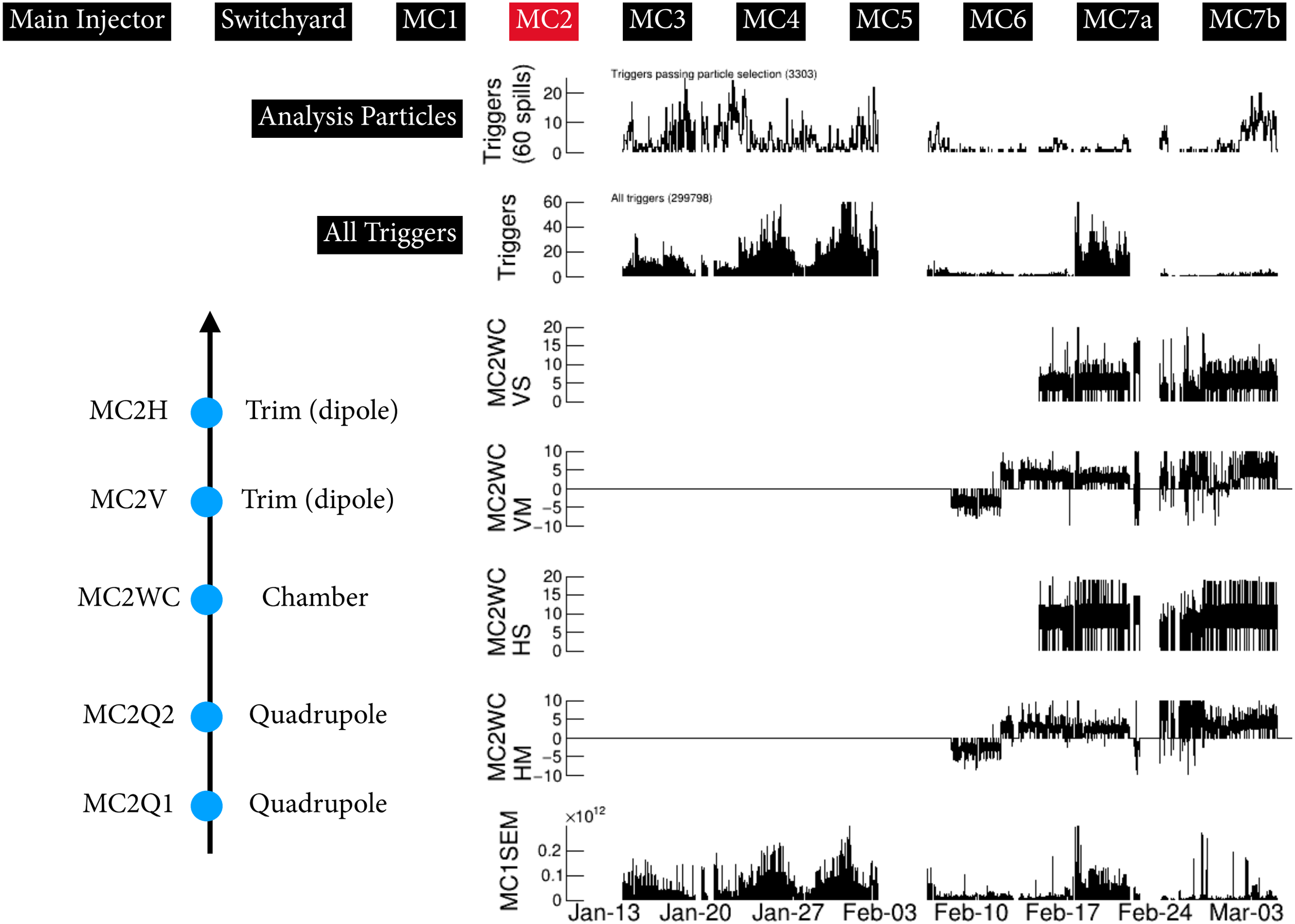


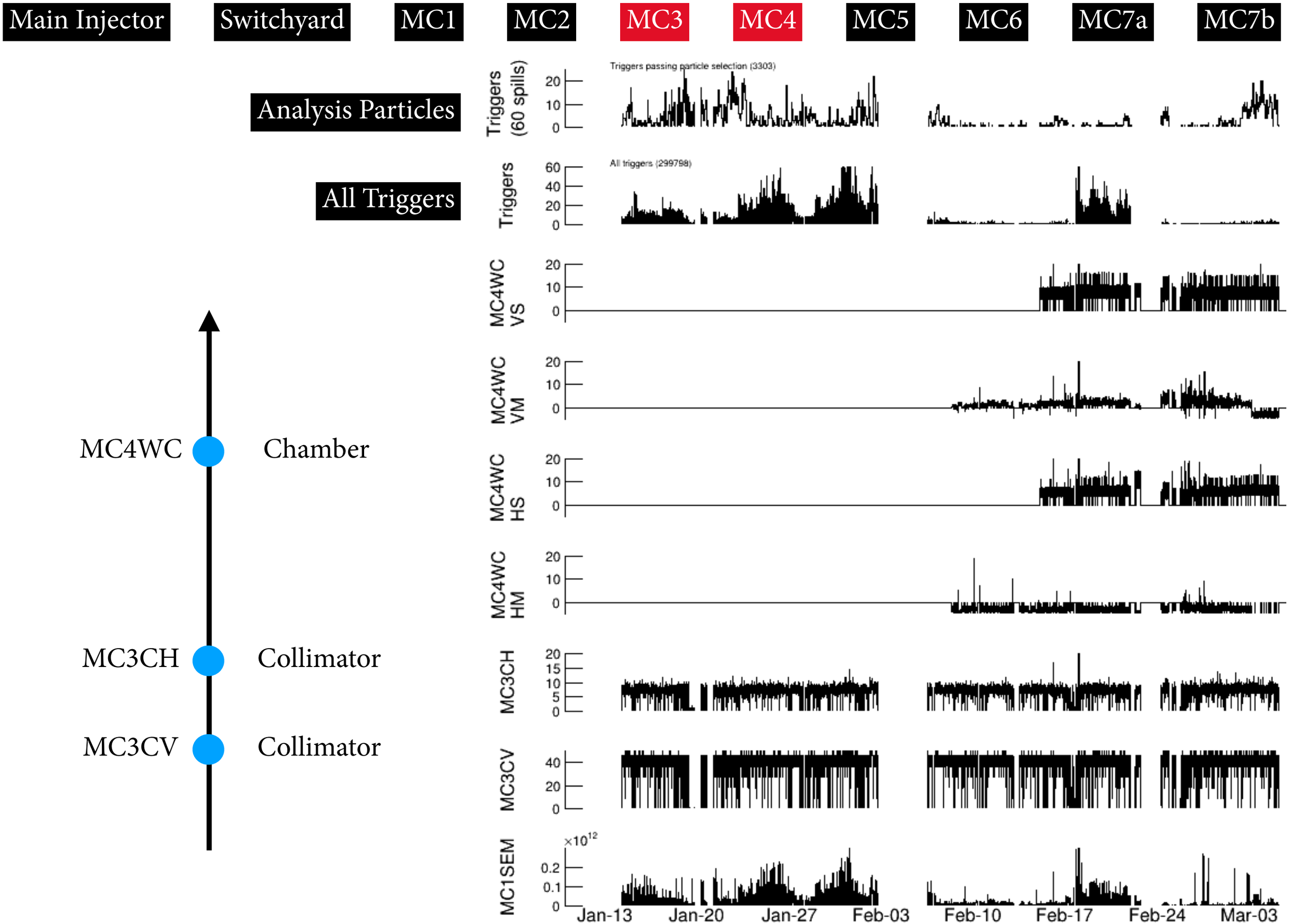


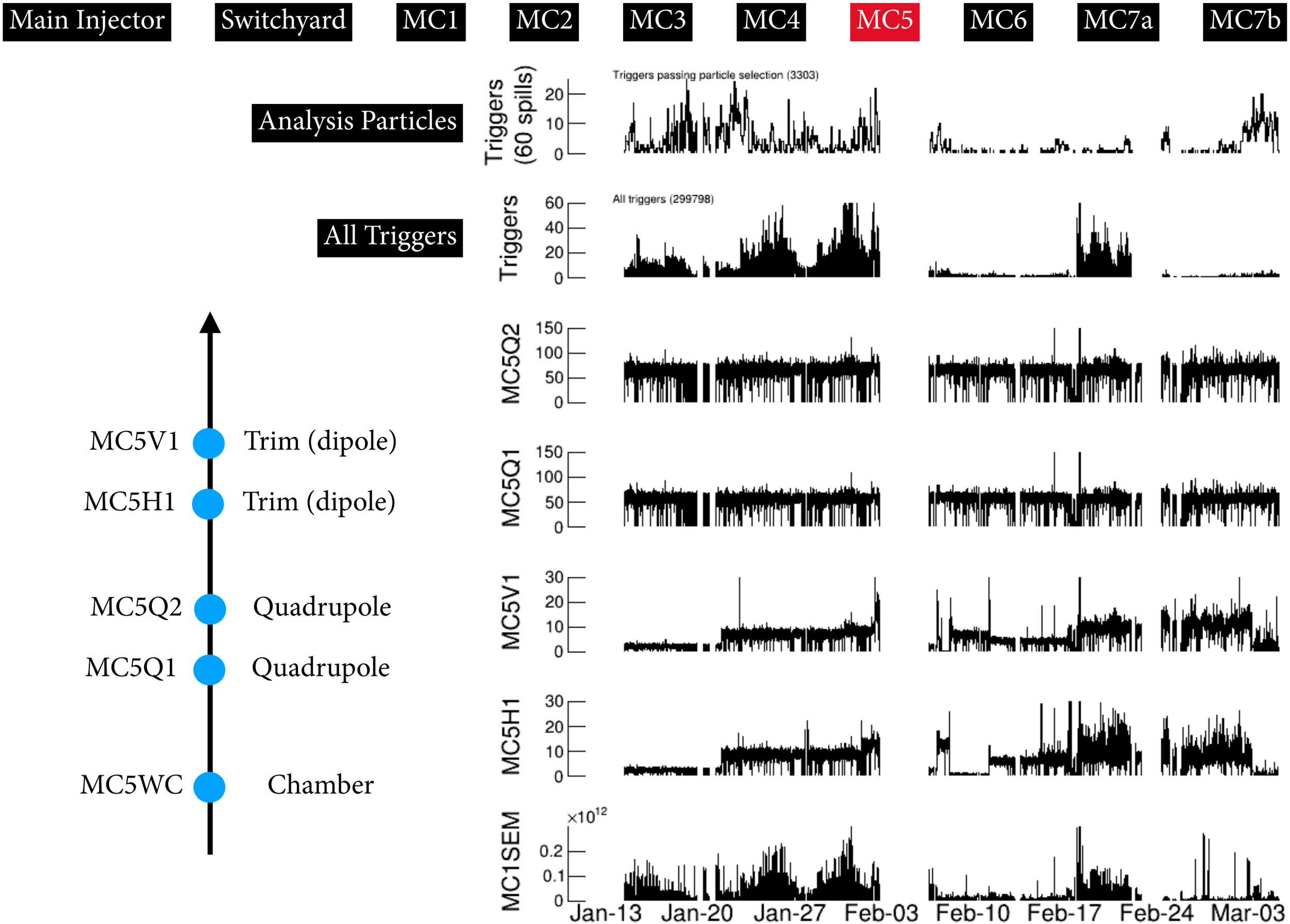

Main Injector
Switchyard
MC1
MC2
MC3
MC4
MC5
MC6
MC7a
MC7b
Analysis Particles
All Triggers
Spill Duty Factor
MW1SEM
MTest
MCenter
Lambertson
SM11
Chamber
SM01
Chamber
Septum
Triggers passing particle selection (3303)
All triggers (299798)
Triggers (60 spills)
Triggers
SM11VI
SM11VM
SM11HM
SM01VI
SM01VM
SM01HM
FTSDF
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03

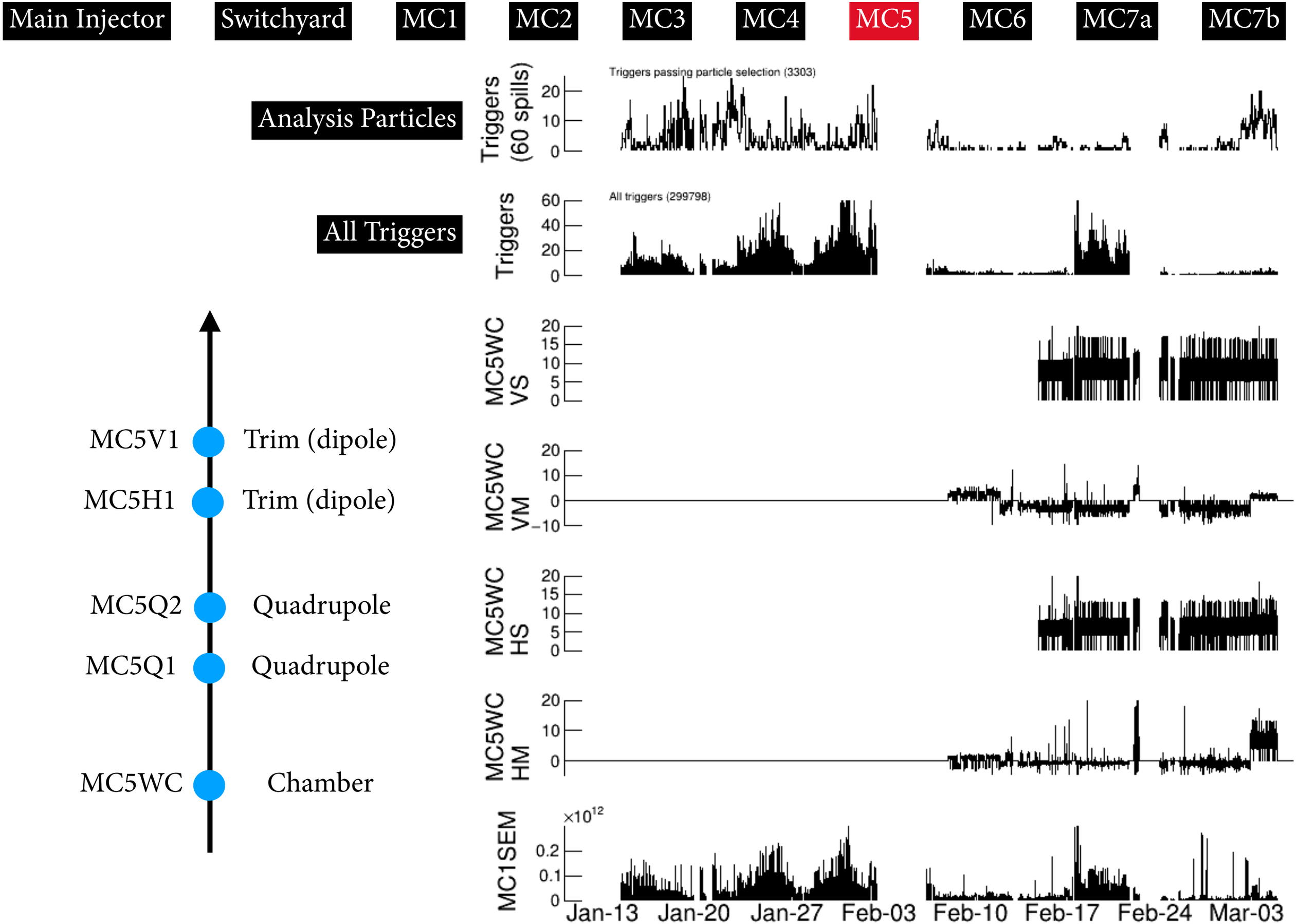

Main Injector
Switchyard
MC1
MC2
MC3
MC4
MC5
MC6
MC7a
MC7b
Analysis Particles
All Triggers
Triggers (60 spills)
Triggers passing particle selection (3303)
Triggers
All triggers (299798)
MC1D
SMC1VS
SMC1VM
SMC1HS
SMC1HM
MC1SEM
×10^12
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03
MCenter
MC1D
Dipole
SMC1
Chamber
MC1SEM
Intensity

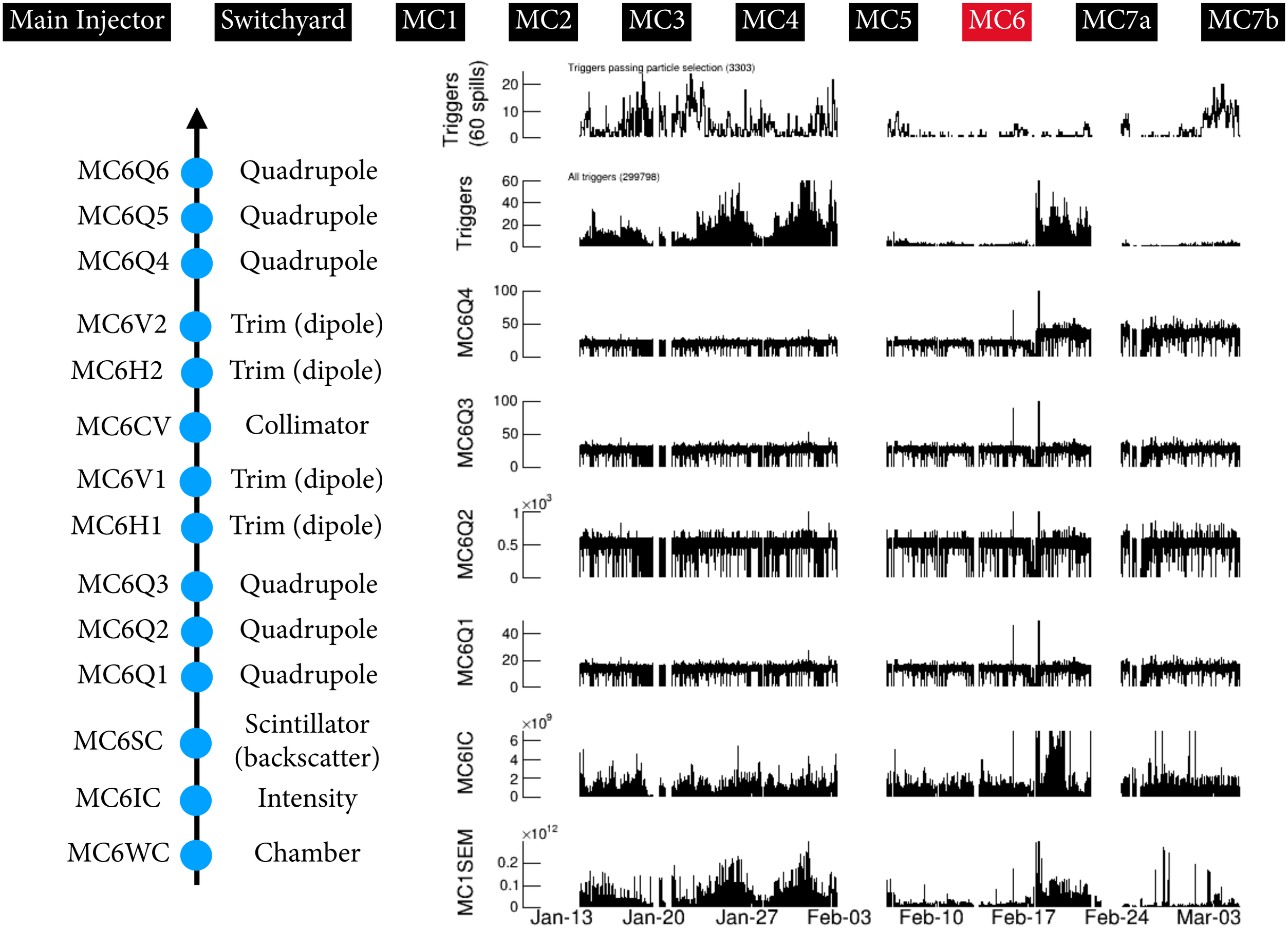

Main Injector
Switchyard
MC1
MC2
MC3
MC4
MC5
MC6
MC7a
MC7b
Analysis Particles
Triggers (60 spills)
Triggers passing particle selection (3303)
All Triggers
Triggers
All triggers (299798)
MC2Q2
MC2Q1
MC2V
MC2H
MC1SEM
×10^12
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03
MC2H
Trim (dipole)
MC2V
Trim (dipole)
MC2WC
Chamber
MC2Q2
Quadrupole
MC2Q1
Quadrupole

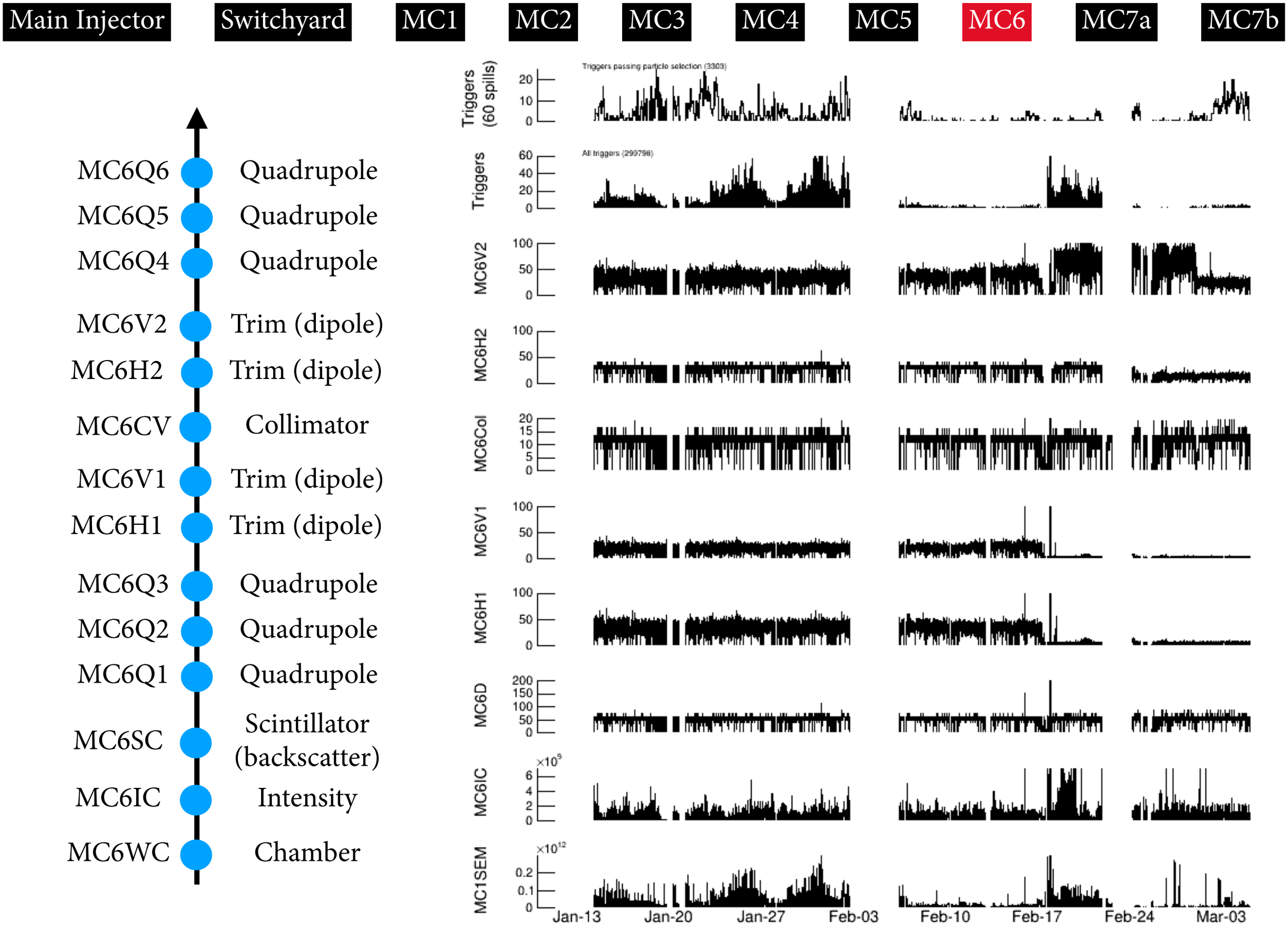

Main Injector
Switchyard
MC1
MC2
MC3
MC4
MC5
MC6
MC7a
MC7b
Analysis Particles
Triggers (60 spills)
Triggers passing particle selection (3303)
All Triggers
Triggers
All triggers (299798)
MC2H
Trim (dipole)
MC2V
Trim (dipole)
MC2WC
Chamber
MC2Q2
Quadrupole
MC2Q1
Quadrupole
MC2WC VS
MC2WC VM
MC2WC HS
MC2WC HM
MC1SEM
×10^12
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03

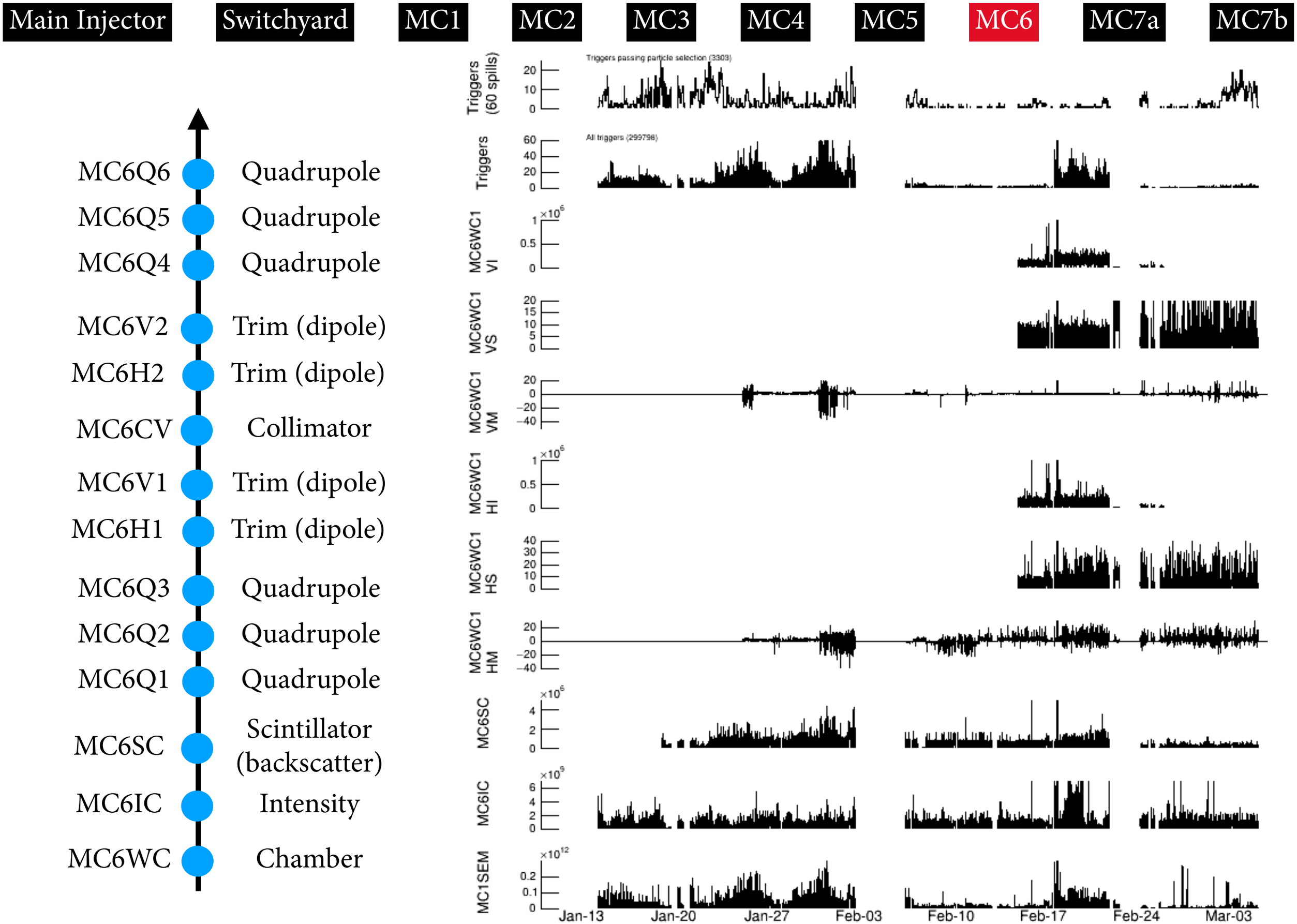

Main Injector
Switchyard
MC1
MC2
MC3
MC4
MC5
MC6
MC7a
MC7b
Analysis Particles
All Triggers
Triggers (60 spills)
Triggers passing particle selection (3303)
Triggers
All triggers (299798)
MC4WC VS
MC4WC VM
MC4WC HS
MC4WC HM
MC3CH
MC3CV
MC1SEM
×10^12
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03
MC4WC
Chamber
MC3CH
Collimator
MC3CV
Collimator

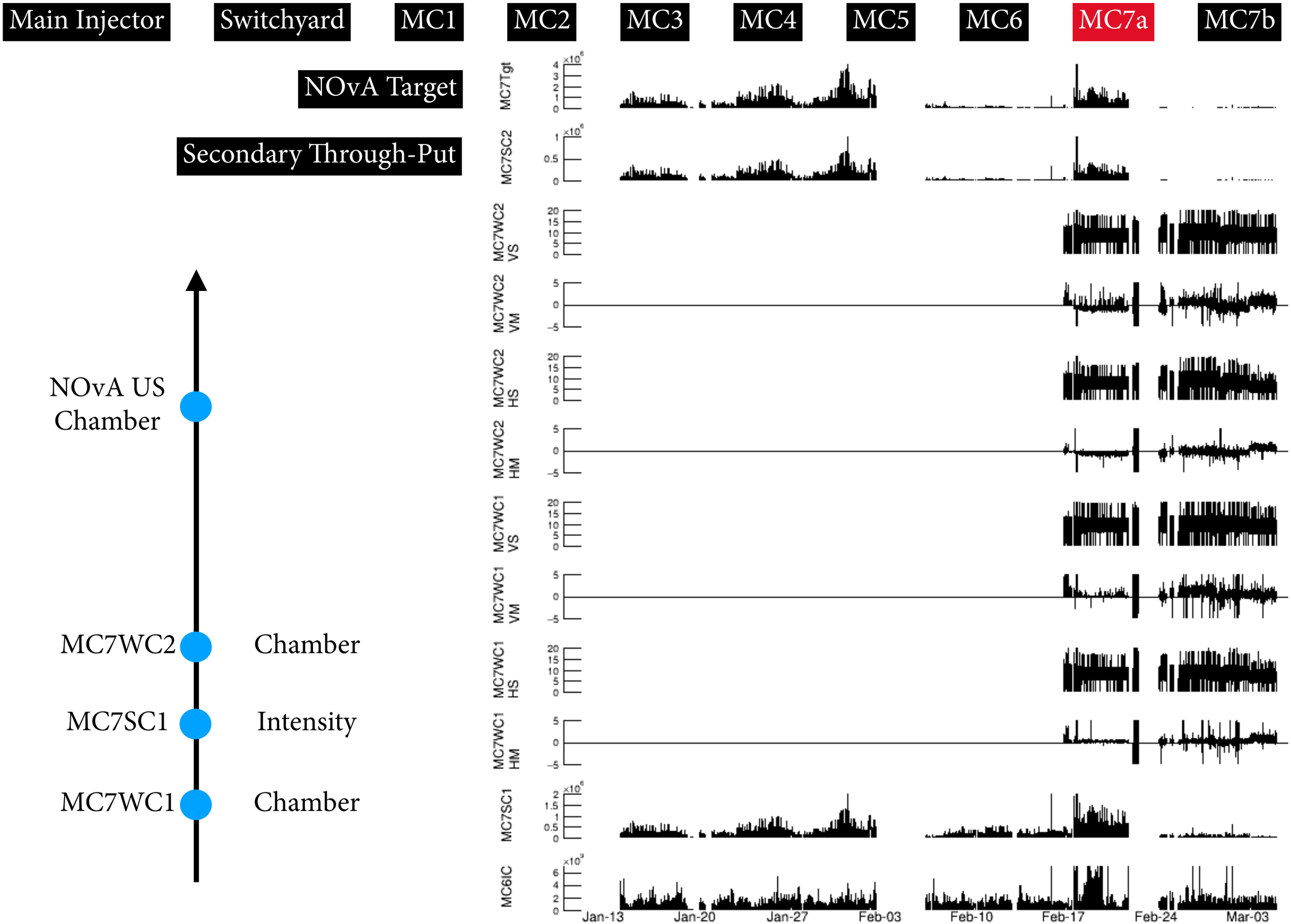

Main Injector
Switchyard
MC1
MC2
MC3
MC4
MC5
MC6
MC7a
MC7b
Analysis Particles
All Triggers
Triggers (60 spills)
Triggers passing particle selection (3303)
Triggers
All triggers (299798)
MC5Q2
MC5Q1
MC5V1
MC5H1
MC1SEM
×10^12
MC5V1 Trim (dipole)
MC5H1 Trim (dipole)
MC5Q2 Quadrupole
MC5Q1 Quadrupole
MC5WC Chamber
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03

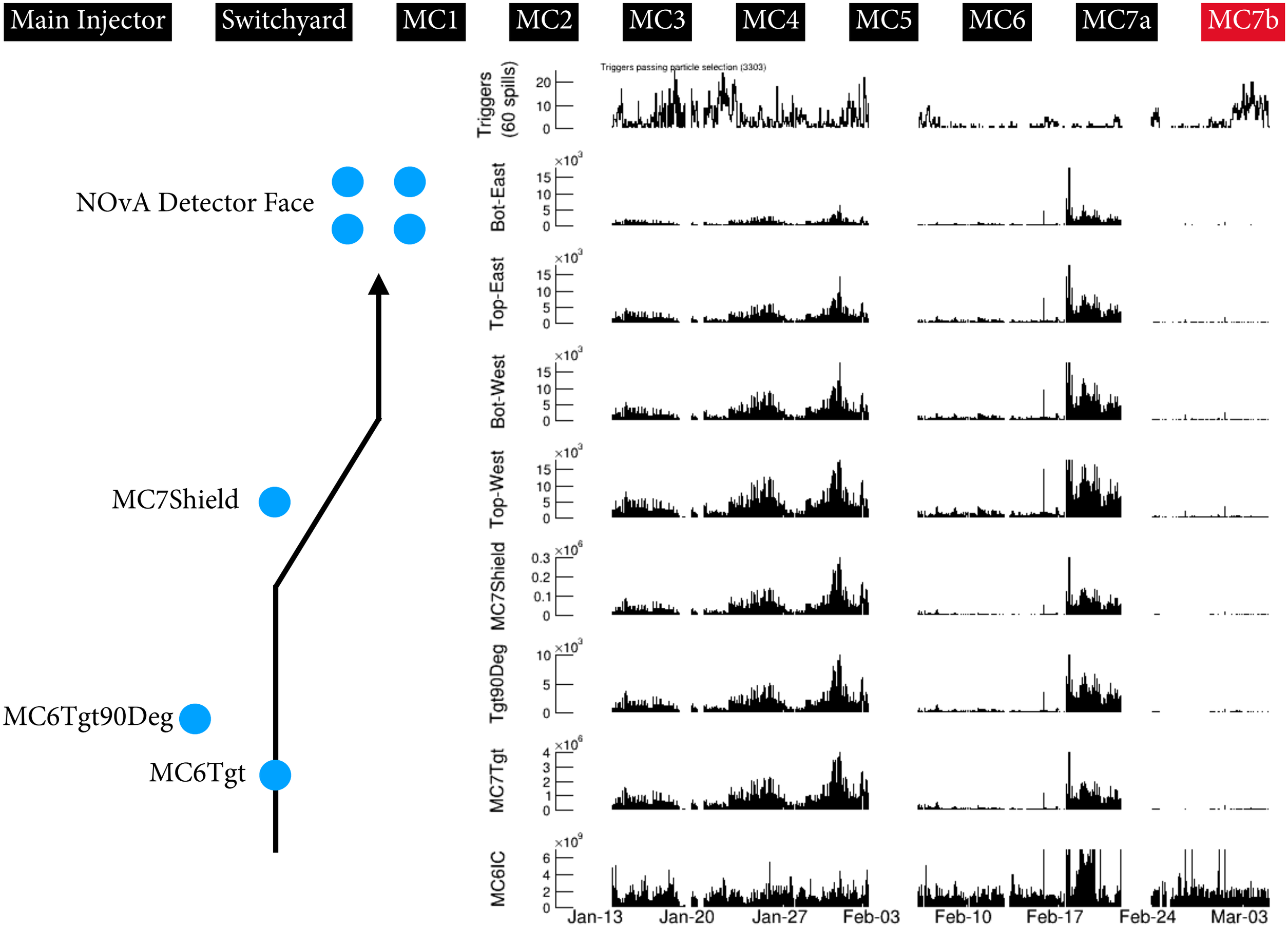

Main Injector
Switchyard
MC1
MC2
MC3
MC4
MC5
MC6
MC7a
MC7b
Analysis Particles
All Triggers
Triggers (60 spills)
Triggers passing particle selection (3303)
Triggers
All triggers (299798)
MC5WC VS
MC5WC VM
MC5WC HS
MC5WC HM
MC1SEM
×10^12
MC5V1
Trim (dipole)
MC5H1
Trim (dipole)
MC5Q2
Quadrupole
MC5Q1
Quadrupole
MC5WC
Chamber
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03


Main Injector
Switchyard
MC1
MC2
MC3
MC4
MC5
MC6
MC7a
MC7b
MC6Q6 Quadrupole
MC6Q5 Quadrupole
MC6Q4 Quadrupole
MC6V2 Trim (dipole)
MC6H2 Trim (dipole)
MC6CV Collimator
MC6V1 Trim (dipole)
MC6H1 Trim (dipole)
MC6Q3 Quadrupole
MC6Q2 Quadrupole
MC6Q1 Quadrupole
MC6SC Scintillator (backscatter)
MC6IC Intensity
MC6WC Chamber
Triggers (60 spills)
Triggers passing particle selection (3303)
Triggers
All triggers (299798)
MC6Q4
MC6Q3
MC6Q2
MC6Q1
MC6IC
MC1SEM
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03


Main Injector
Switchyard
MC1
MC2
MC3
MC4
MC5
MC6
MC7a
MC7b
MC6Q6 Quadrupole
MC6Q5 Quadrupole
MC6Q4 Quadrupole
MC6V2 Trim (dipole)
MC6H2 Trim (dipole)
MC6CV Collimator
MC6V1 Trim (dipole)
MC6H1 Trim (dipole)
MC6Q3 Quadrupole
MC6Q2 Quadrupole
MC6Q1 Quadrupole
MC6SC Scintillator (backscatter)
MC6IC Intensity
MC6WC Chamber
Triggers (60 spills)
Triggers passing particle selection (3303)
Triggers
All triggers (299798)
MC6V2
MC6H2
MC6Col
MC6V1
MC6H1
MC6D
MC6IC
MC1SEM
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03


Main Injector
Switchyard
MC1
MC2
MC3
MC4
MC5
MC6
MC7a
MC7b
MC6Q6 Quadrupole
MC6Q5 Quadrupole
MC6Q4 Quadrupole
MC6V2 Trim (dipole)
MC6H2 Trim (dipole)
MC6CV Collimator
MC6V1 Trim (dipole)
MC6H1 Trim (dipole)
MC6Q3 Quadrupole
MC6Q2 Quadrupole
MC6Q1 Quadrupole
MC6SC Scintillator (backscatter)
MC6IC Intensity
MC6WC Chamber
Triggers (60 spills)
Triggers passing particle selection (3303)
Triggers
All triggers (299798)
MC6WC1 VI
MC6WC1 VS
MC6WC1 VM
MC6WC1 HI
MC6WC1 HS
MC6WC1 HM
MC6SC
MC6IC
MC1SEM
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03


Main Injector
Switchyard
MC1
MC2
MC3
MC4
MC5
MC6
MC7a
MC7b
NOvA Target
Secondary Through-Put
NOvA US Chamber
MC7WC2 Chamber
MC7SC1 Intensity
MC7WC1 Chamber
MC7Tgt
MC7SC2
MC7WC2 VS
MC7WC2 VM
MC7WC2 HS
MC7WC2 HM
MC7WC1 VS
MC7WC1 VM
MC7WC1 HS
MC7WC1 HM
MC7SC1
MC6IC
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03


Main Injector
Switchyard
MC1
MC2
MC3
MC4
MC5
MC6
MC7a
MC7b
NOvA Detector Face
MC7Shield
MC6Tgt90Deg
MC6Tgt
Triggers (60 spills)
Triggers passing particle selection (3303)
Bot-East
Top-East
Bot-West
Top-West
MC7Shield
Tgt90Deg
MC7Tgt
MC6IC
Jan-13
Jan-20
Jan-27
Feb-03
Feb-10
Feb-17
Feb-24
Mar-03