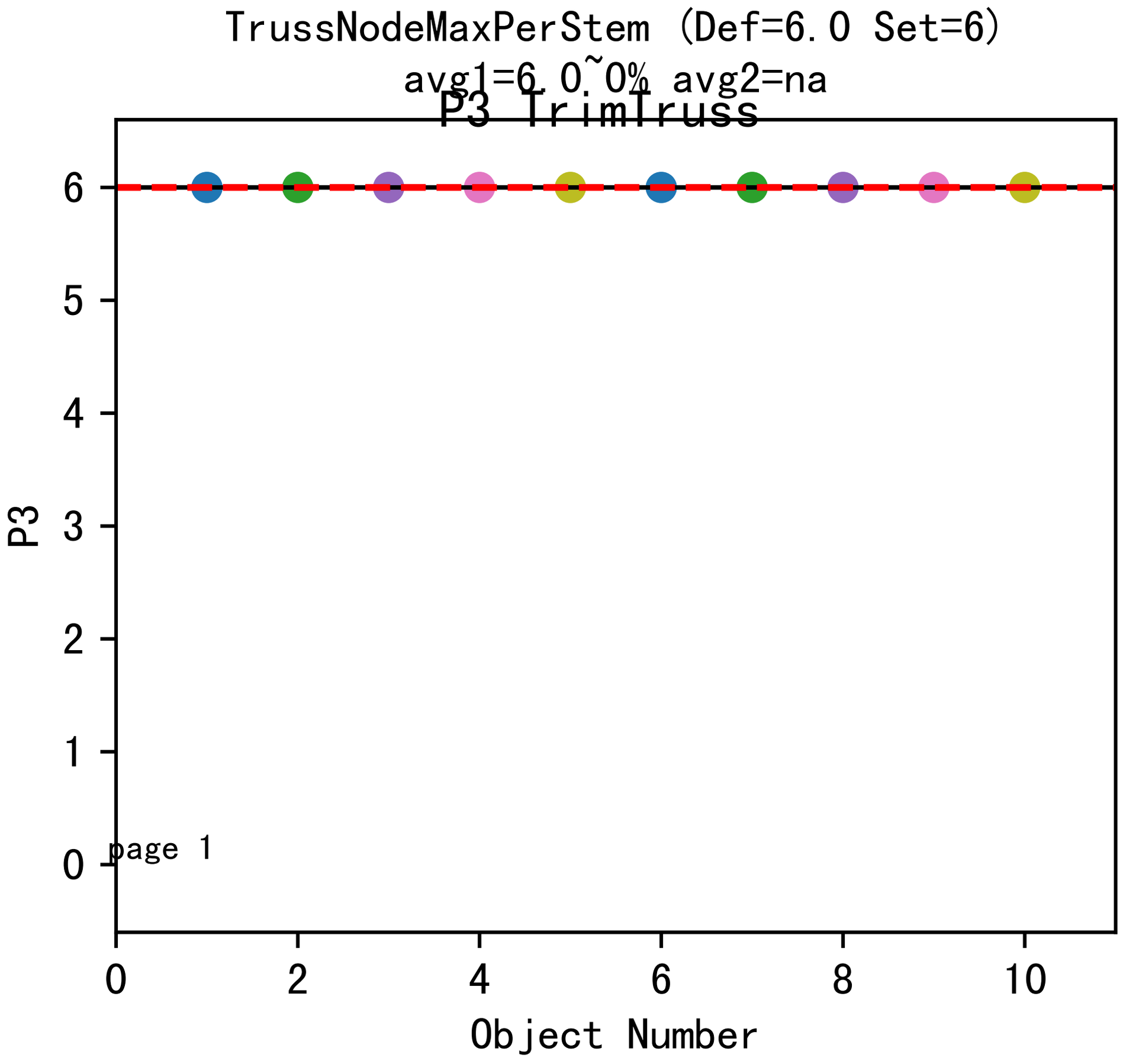
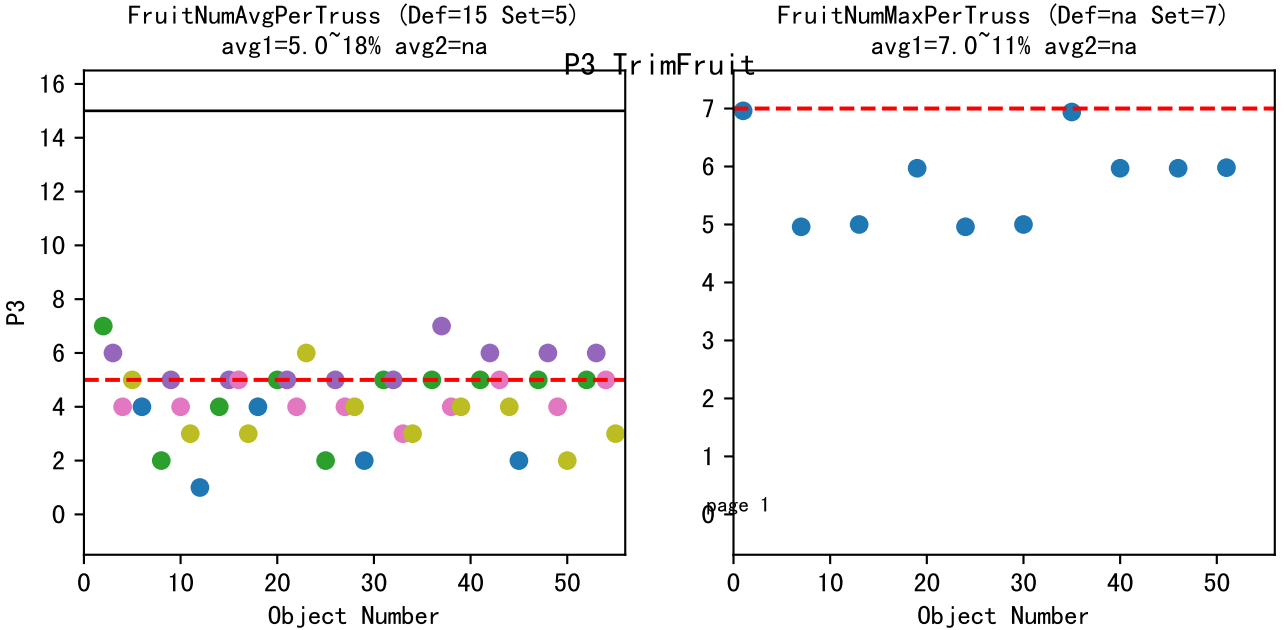
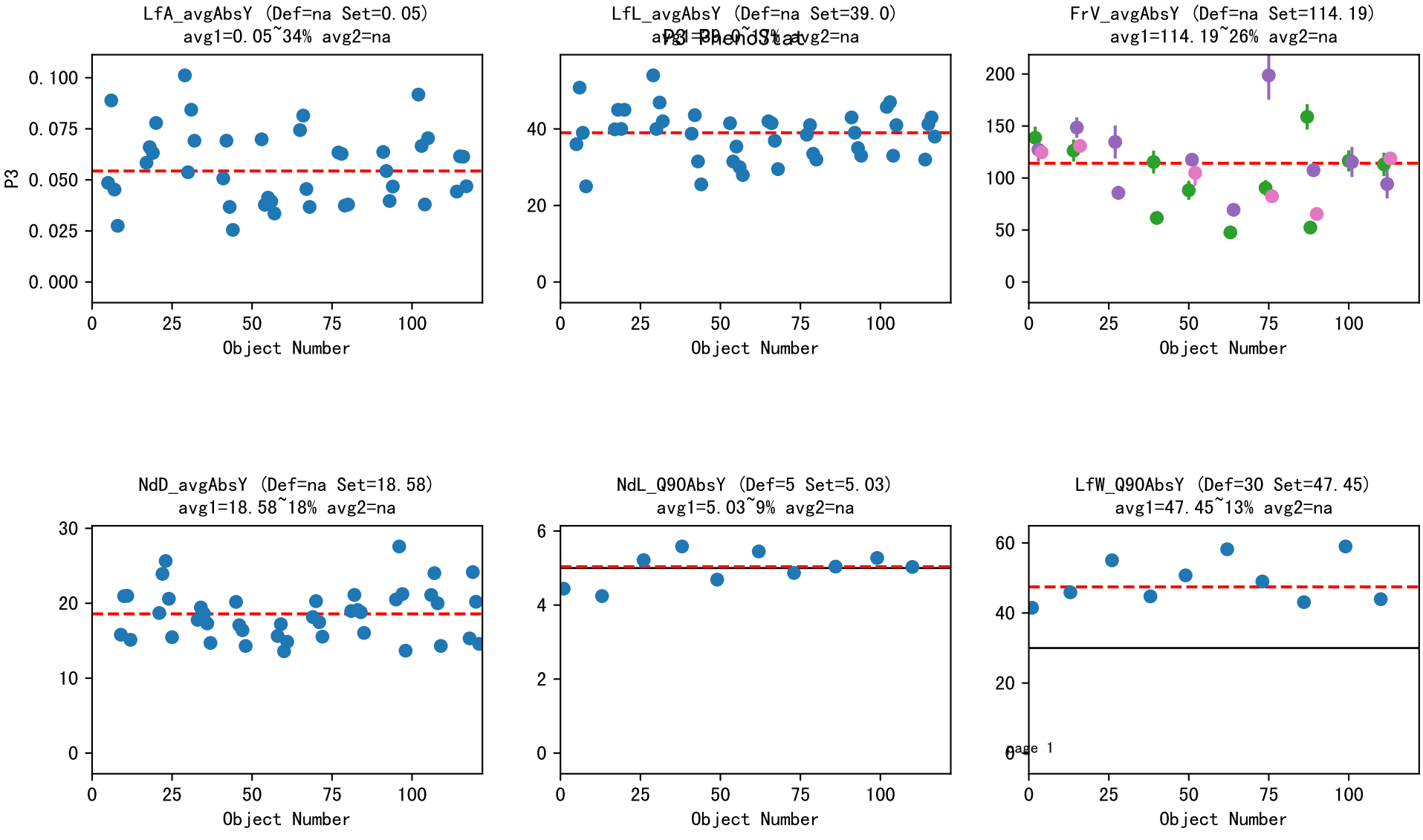
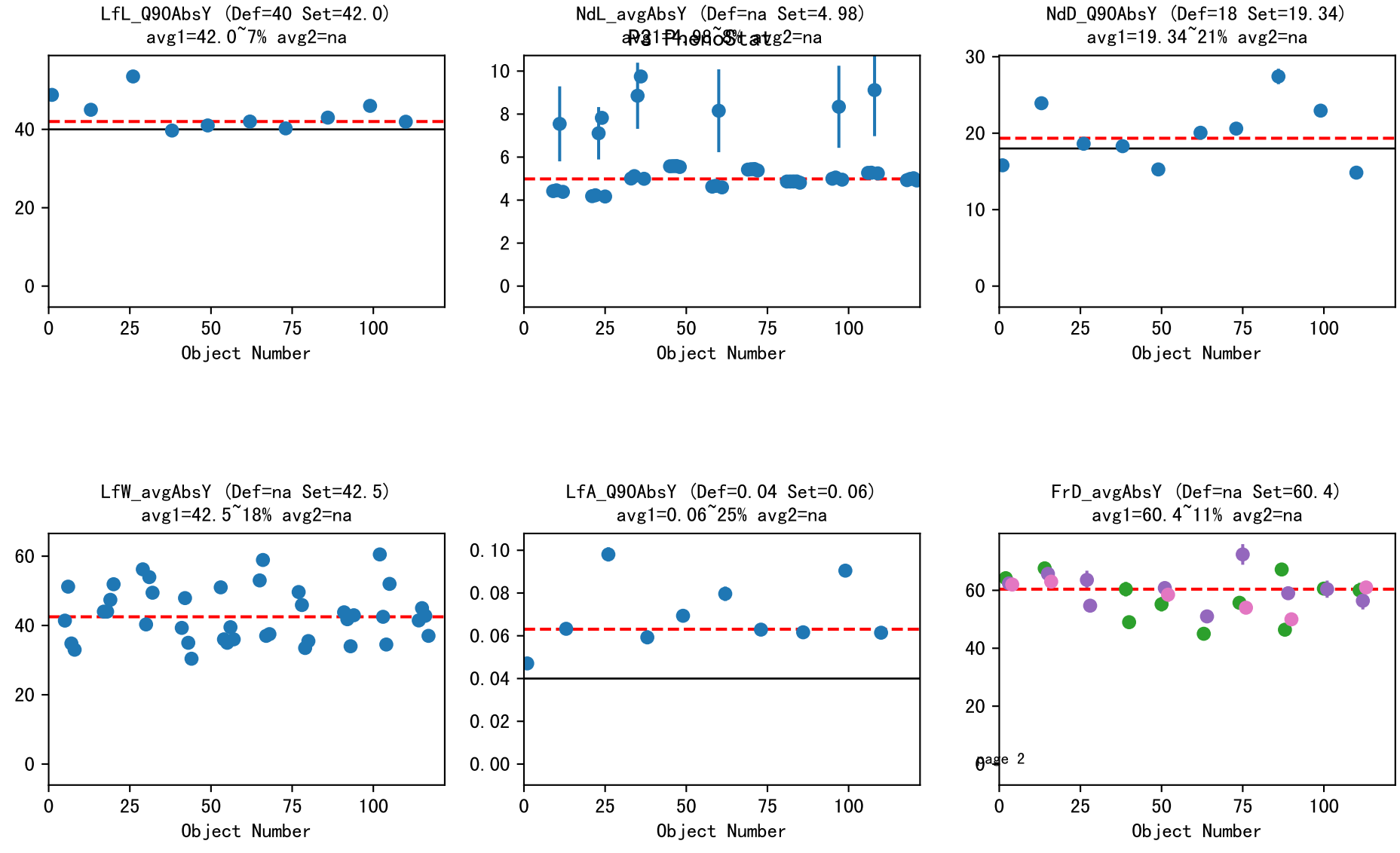
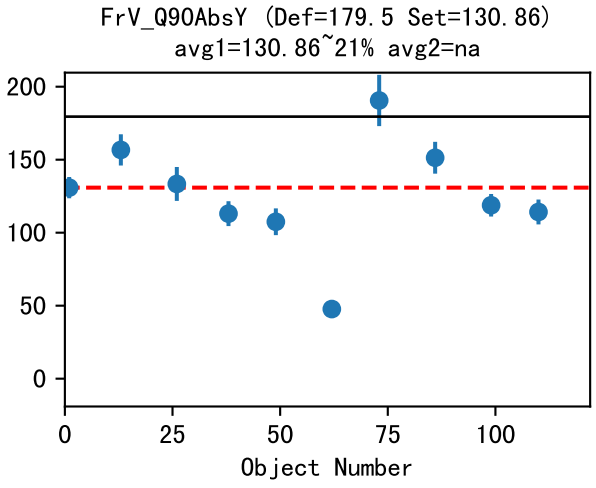
Phenotype Data Analysis Plots
PhenoData day range = 5 - 65
Analysis cutoff day = 65
NC11 P3
2025-06-10 (Day 66)

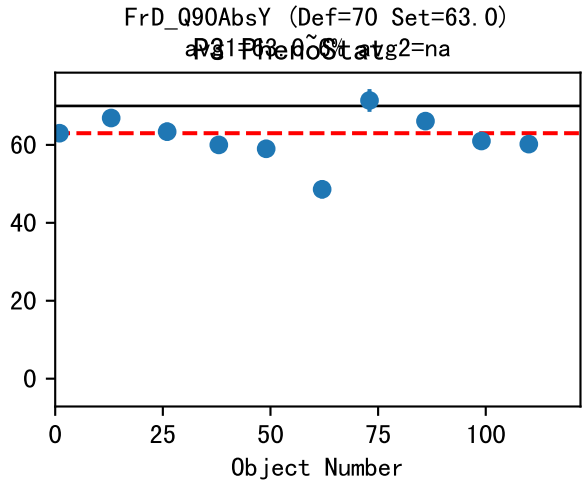

TrussNodeMaxPerStem (Def=6.0 Set=6)
avg1=6.0~0% avg2=na
P3 TrimTruss
6
5
4
3
2
1
0
P3
page 1
0
2
4
6
8
10
Object Number

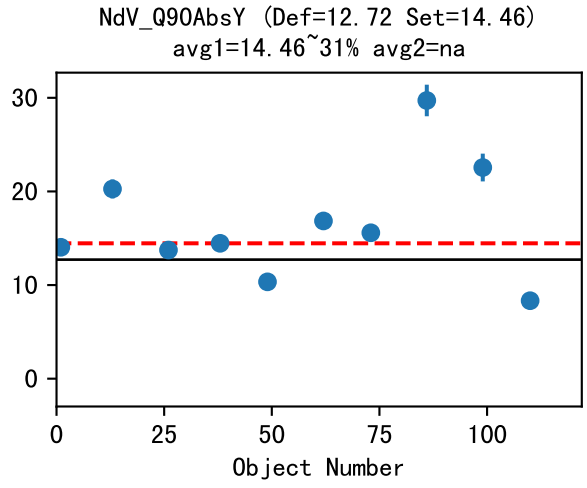

P3 TrimFruit
FruitNumAvgPerTruss (Def=15 Set=5)
avg1=5.0~18% avg2=na
P3
Object Number
FruitNumMaxPerTruss (Def=na Set=7)
avg1=7.0~11% avg2=na
Object Number
page 1

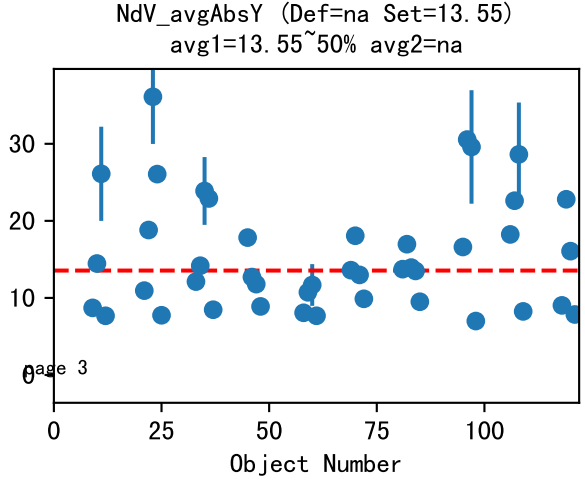

P3 Phenostat
LfA_avgAbsY (Def=na Set=0.05)
avg1=0.05~34% avg2=na
LfL_avgAbsY (Def=na Set=39.0)
avg1=39.0~13% avg2=na
FrV_avgAbsY (Def=na Set=114.19)
avg1=114.19~26% avg2=na
NdD_avgAbsY (Def=na Set=18.58)
avg1=18.58~18% avg2=na
NdL_Q90AbsY (Def=5 Set=5.03)
avg1=5.03~9% avg2=na
LfW_Q90AbsY (Def=30 Set=47.45)
avg1=47.45~13% avg2=na
P3
Object Number
page 1

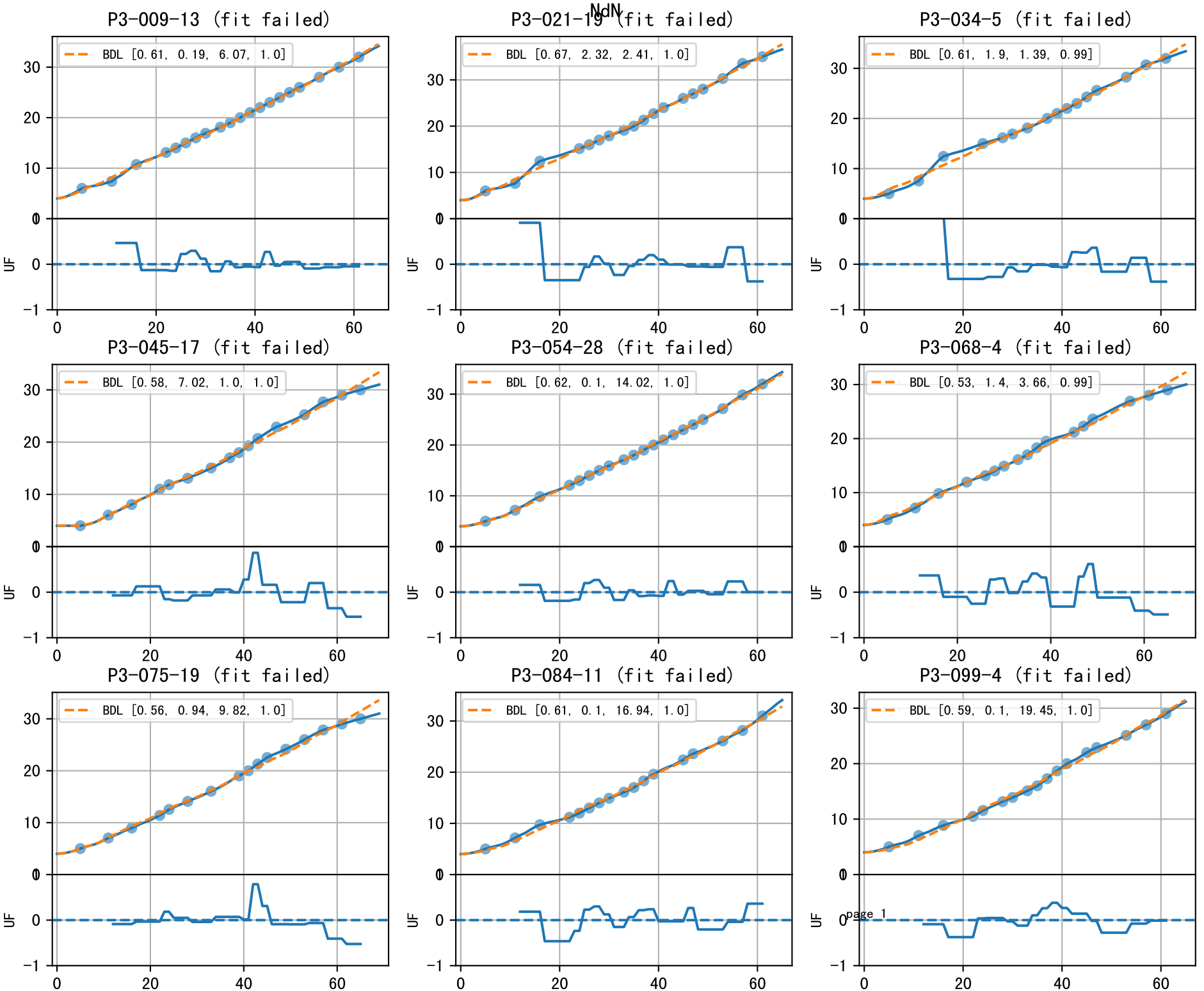

LfL_Q90AbsY (Def=40 Set=42.0)
avg1=42.0~7% avg2=na
NdL_avgAbsY (Def=na Set=4.98)
avg1=4.98~8% avg2=na
NdD_Q90AbsY (Def=18 Set=19.34)
avg1=19.34~21% avg2=na
LfW_avgAbsY (Def=na Set=42.5)
avg1=42.5~18% avg2=na
LfA_Q90AbsY (Def=0.04 Set=0.06)
avg1=0.06~25% avg2=na
FrD_avgAbsY (Def=na Set=60.4)
avg1=60.4~11% avg2=na
Object Number
Page 2


FrV_Q90AbsY (Def=179.5 Set=130.86)
avg1=130.86~21% avg2=na
Object Number

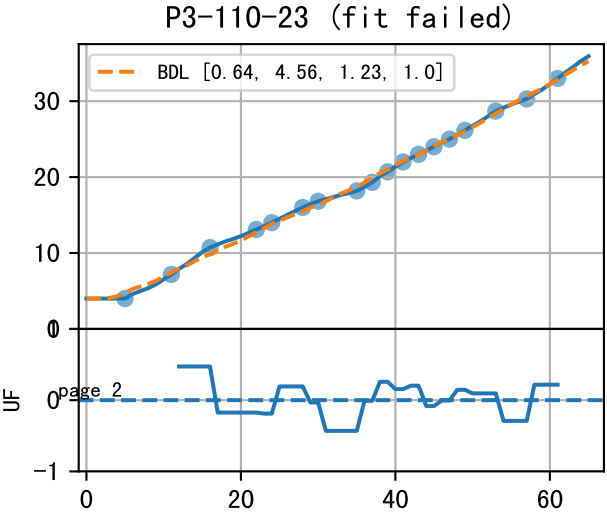

FrD_Q90AbsY (Def=70 Set=63.0)
avg1=63.0~6% avg2=na
Object Number

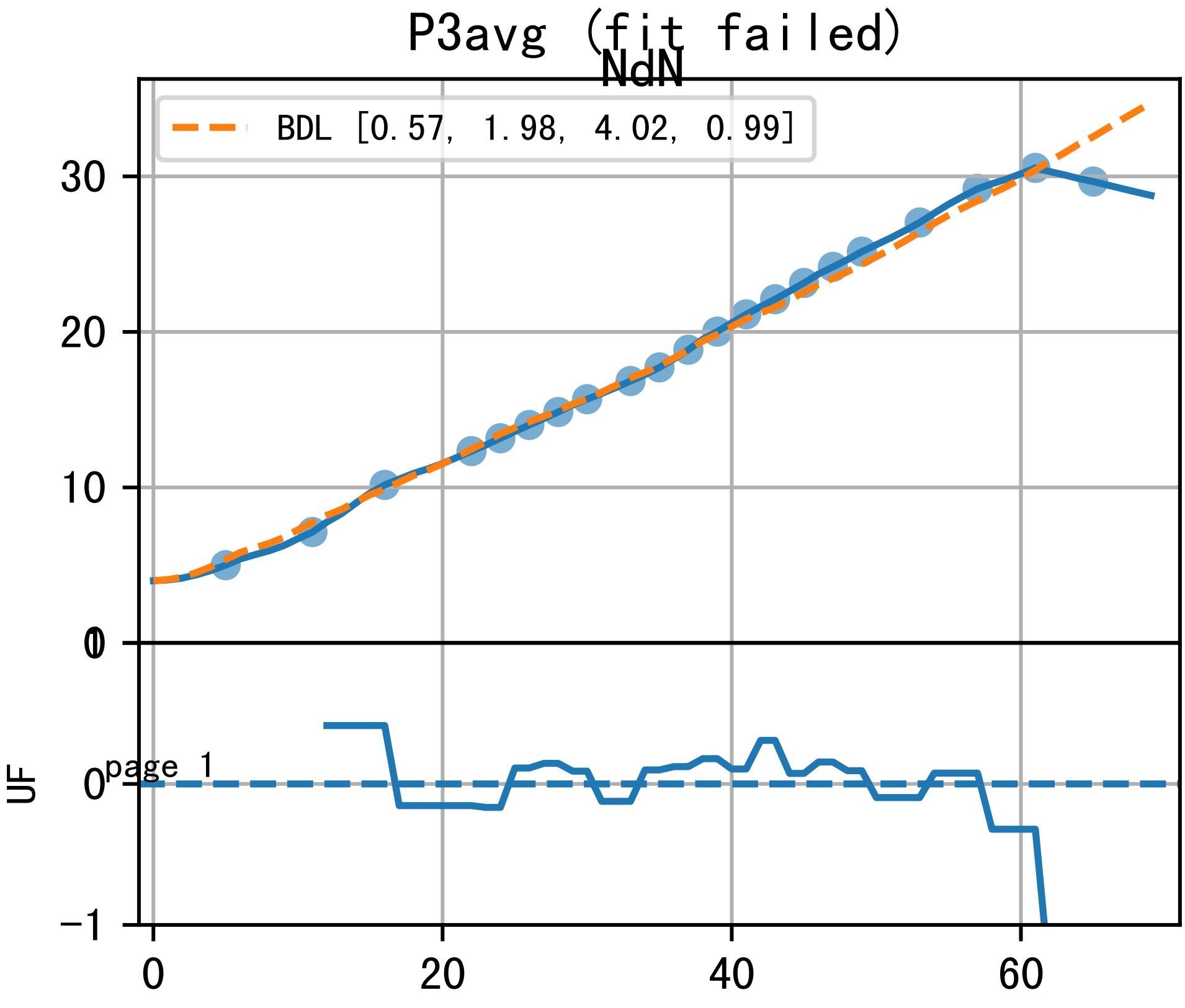

NdV_Q90AbsY (Def=12.72 Set=14.46)
avg1=14.46~31% avg2=na
Object Number

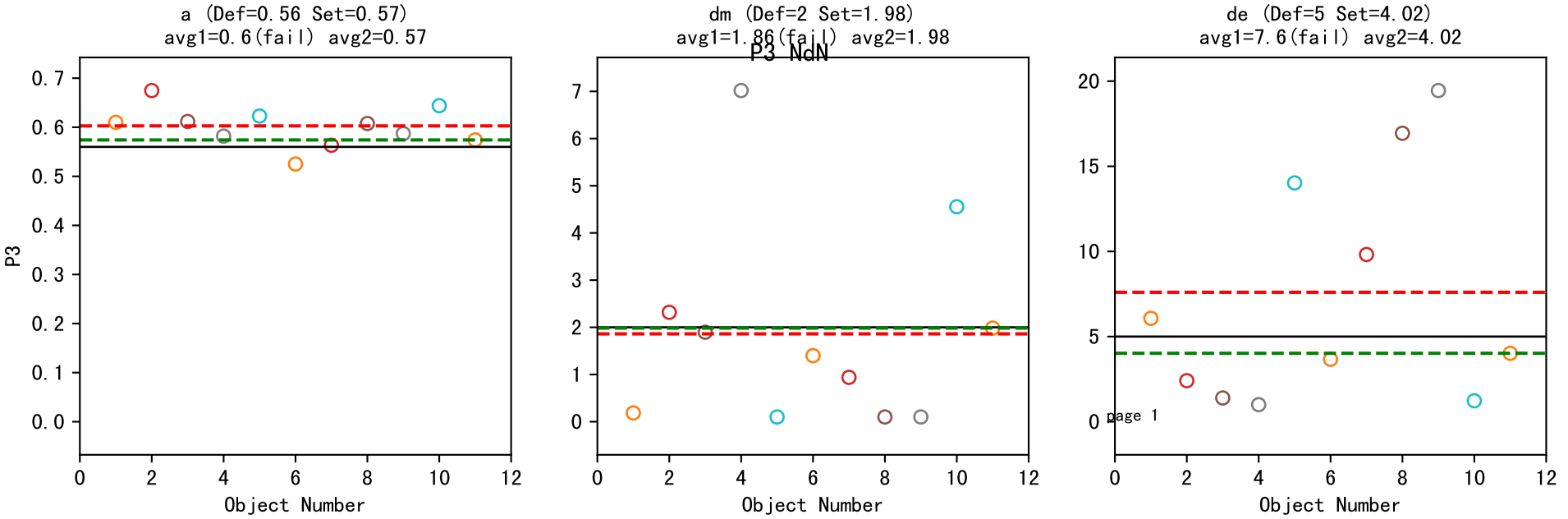

NdV_avgAbsY (Def=na Set=13.55)
avg1=13.55~50% avg2=na
Object Number

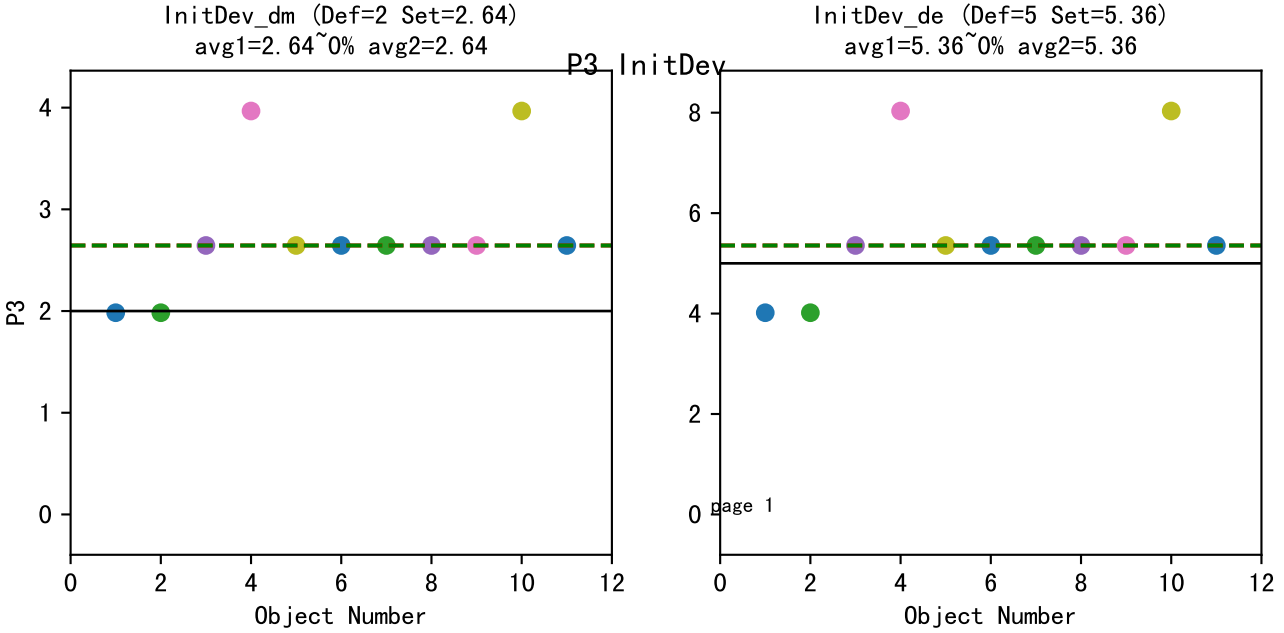

NdN
P3-009-13 (fit failed)
BDL [0.61, 0.19, 6.07, 1.0]
P3-021-19 (fit failed)
BDL [0.67, 2.32, 2.41, 1.0]
P3-034-5 (fit failed)
BDL [0.61, 1.9, 1.39, 0.99]
P3-045-17 (fit failed)
BDL [0.58, 7.02, 1.0, 1.0]
P3-054-28 (fit failed)
BDL [0.62, 0.1, 14.02, 1.0]
P3-068-4 (fit failed)
BDL [0.53, 1.4, 3.66, 0.99]
P3-075-19 (fit failed)
BDL [0.56, 0.94, 9.82, 1.0]
P3-084-11 (fit failed)
BDL [0.61, 0.1, 16.94, 1.0]
P3-099-4 (fit failed)
BDL [0.59, 0.1, 19.45, 1.0]
UF

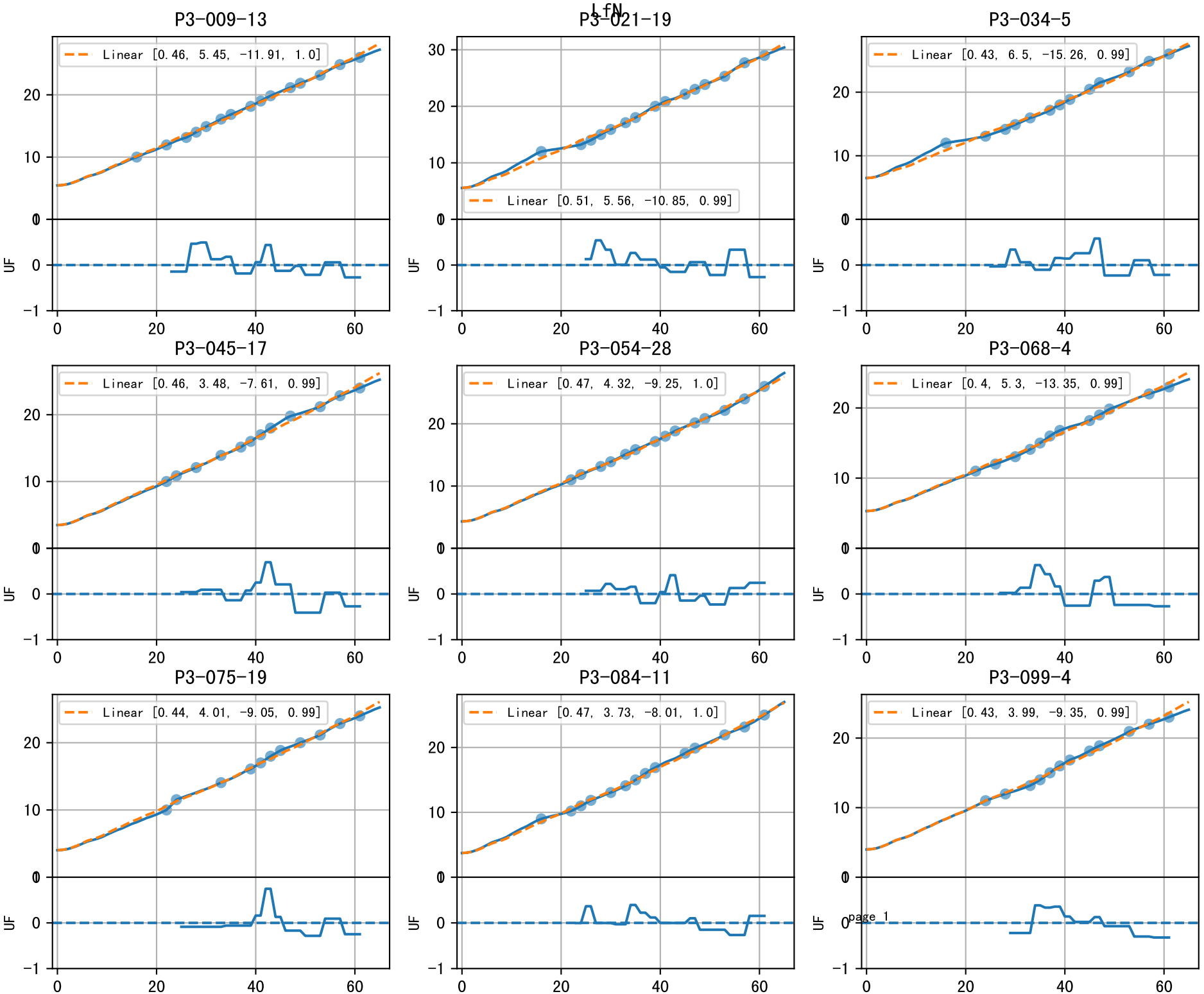
NdN

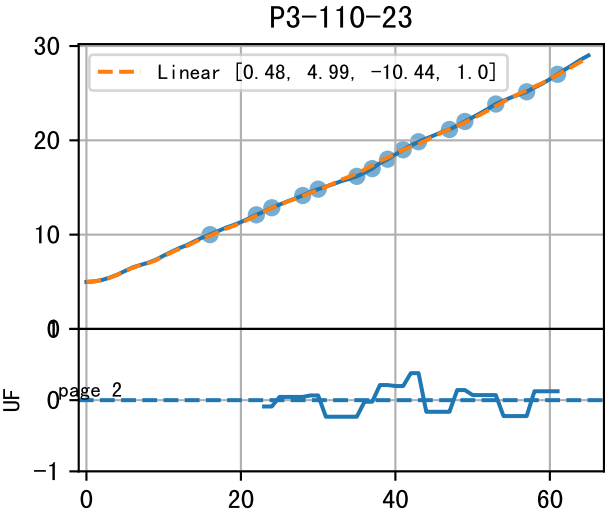


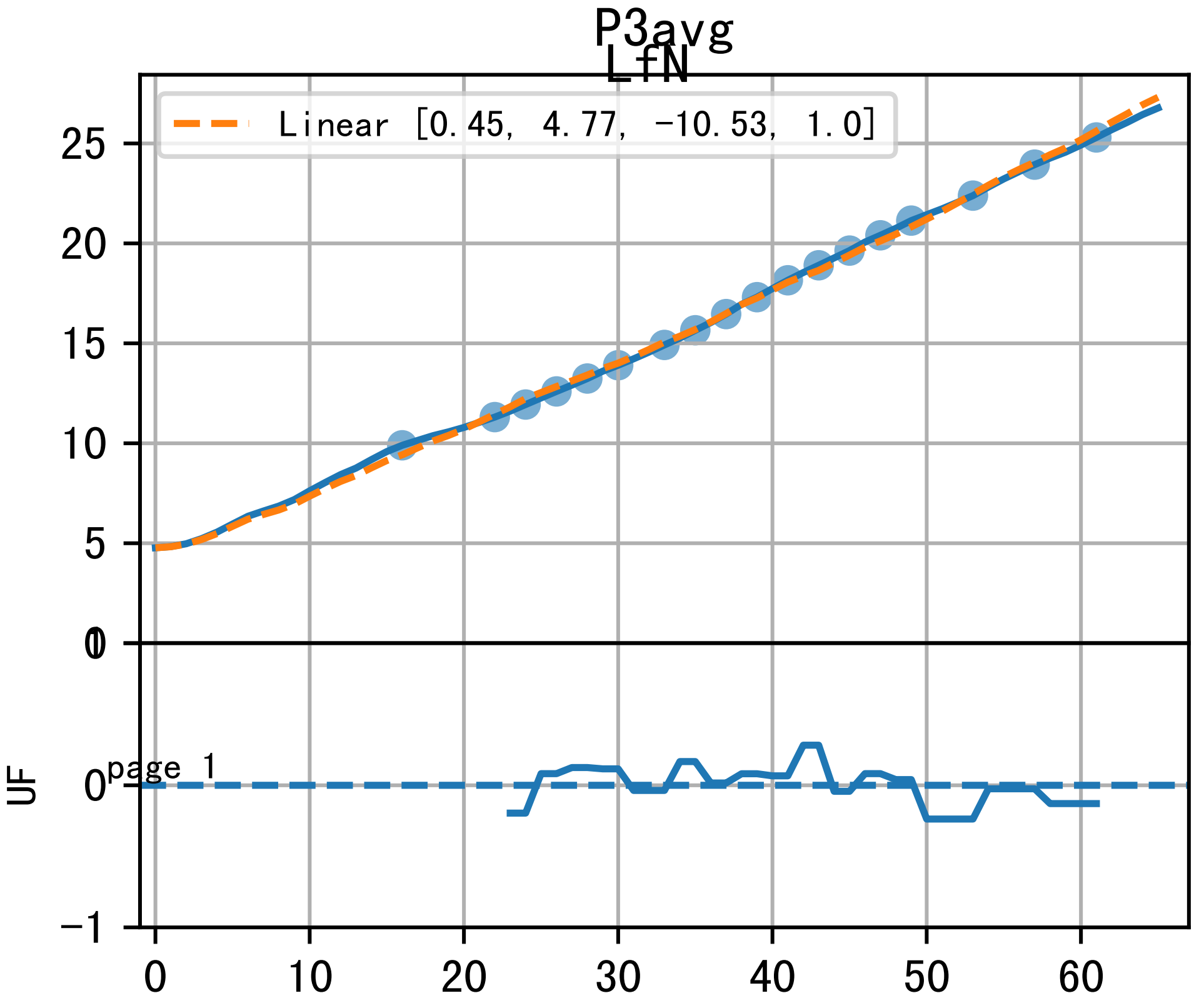

P3avg (fit failed)
NdN
BDL [0.57, 1.98, 4.02, 0.99]
30
20
10
0
UF
0
−1
0
20
40
60

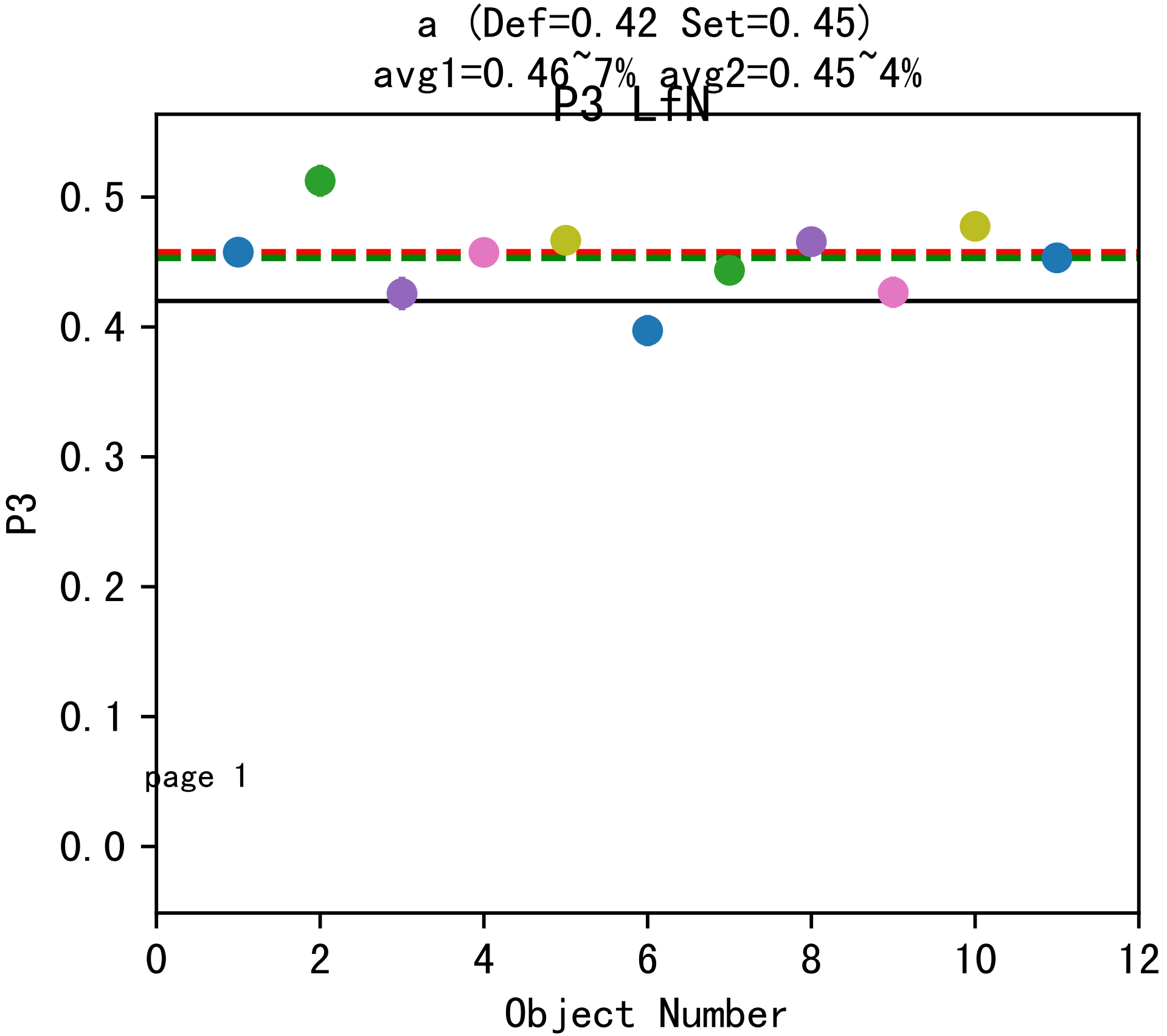

P3 NdN
a (Def=0.56 Set=0.57)
avg1=0.6(fail) avg2=0.57
dm (Def=2 Set=1.98)
avg1=1.86(fail) avg2=1.98
de (Def=5 Set=4.02)
avg1=7.6(fail) avg2=4.02
P3
Object Number
Object Number
Object Number
page 1


P3_InitDev
InitDev_dm (Def=2 Set=2.64)
avg1=2.64~0% avg2=2.64
InitDev_de (Def=5 Set=5.36)
avg1=5.36~0% avg2=5.36
P3
Object Number
Object Number
page 1

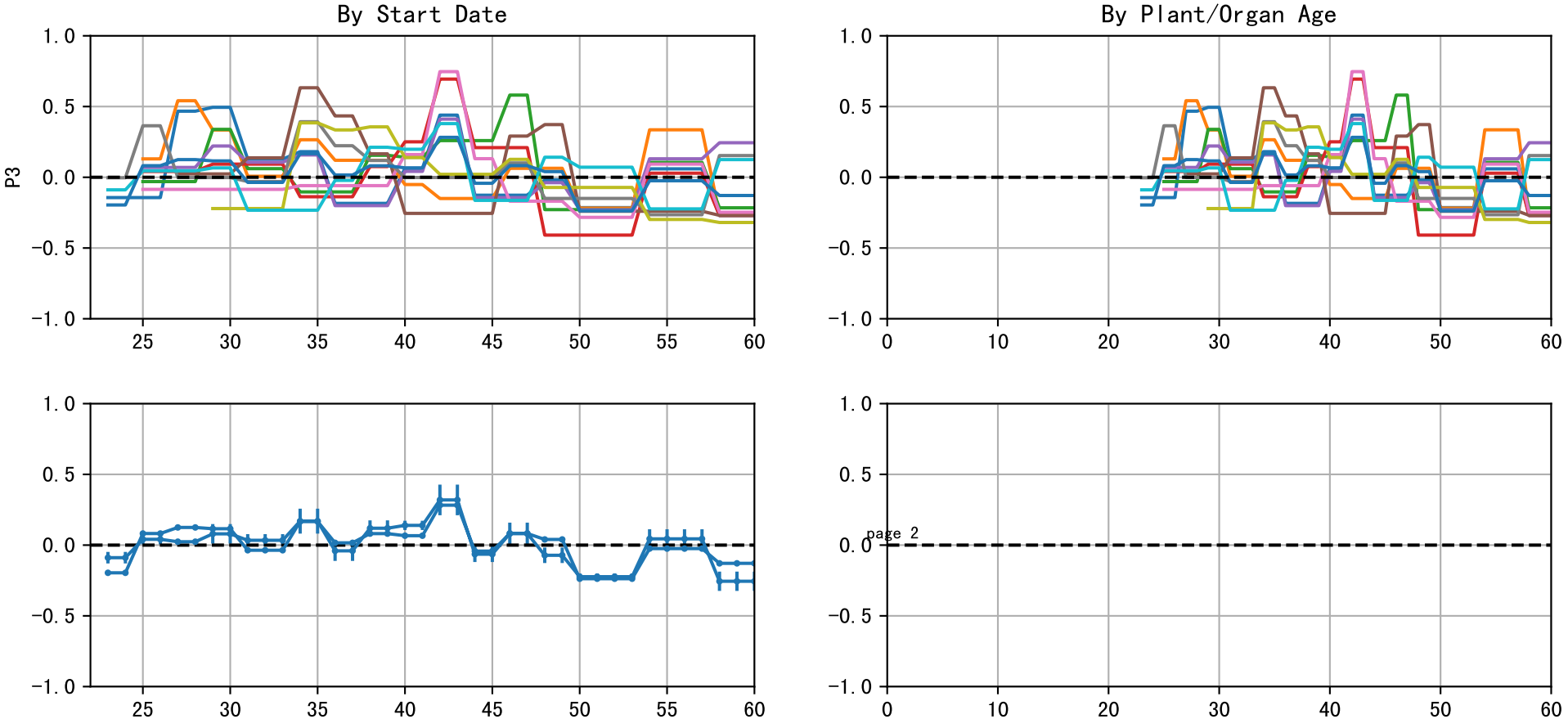

LfN
P3-009-13
Linear [0.46, 5.45, -11.91, 1.0]
P3-021-19
Linear [0.51, 5.56, -10.85, 0.99]
P3-034-5
Linear [0.43, 6.5, -15.26, 0.99]
P3-045-17
Linear [0.46, 3.48, -7.61, 0.99]
P3-054-28
Linear [0.47, 4.32, -9.25, 1.0]
P3-068-4
Linear [0.4, 5.3, -13.35, 0.99]
P3-075-19
Linear [0.44, 4.01, -9.05, 0.99]
P3-084-11
Linear [0.47, 3.73, -8.01, 1.0]
P3-099-4
Linear [0.43, 3.99, -9.35, 0.99]
UF


P3-110-23
Linear [0.48, 4.99, -10.44, 1.0]
30
20
10
0
UF
0
-1
0
20
40
60

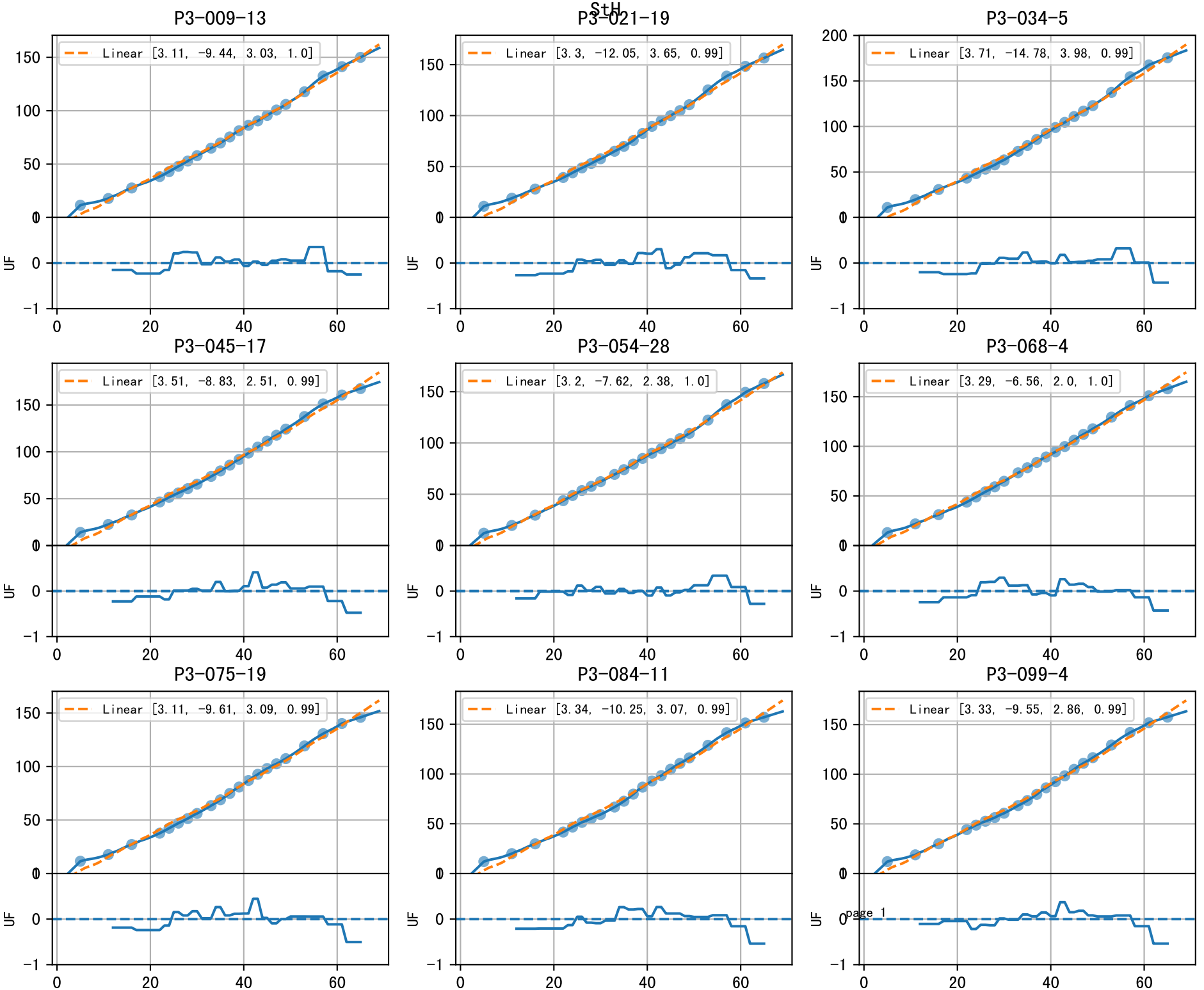

P3avg
LfN
Linear [0.45, 4.77, -10.53, 1.0]
25
20
15
10
5
0
0
UF
page 1
−1
0
10
20
30
40
50
60

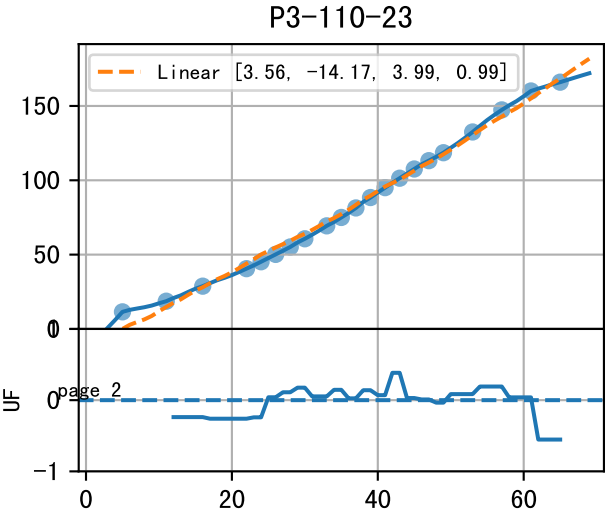

a (Def=0.42 Set=0.45)
avg1=0.46~7% avg2=0.45~4%
P3 LfN
0.5
0.4
0.3
0.2
0.1
0.0
P3
page 1
0
2
4
6
8
10
12
Object Number

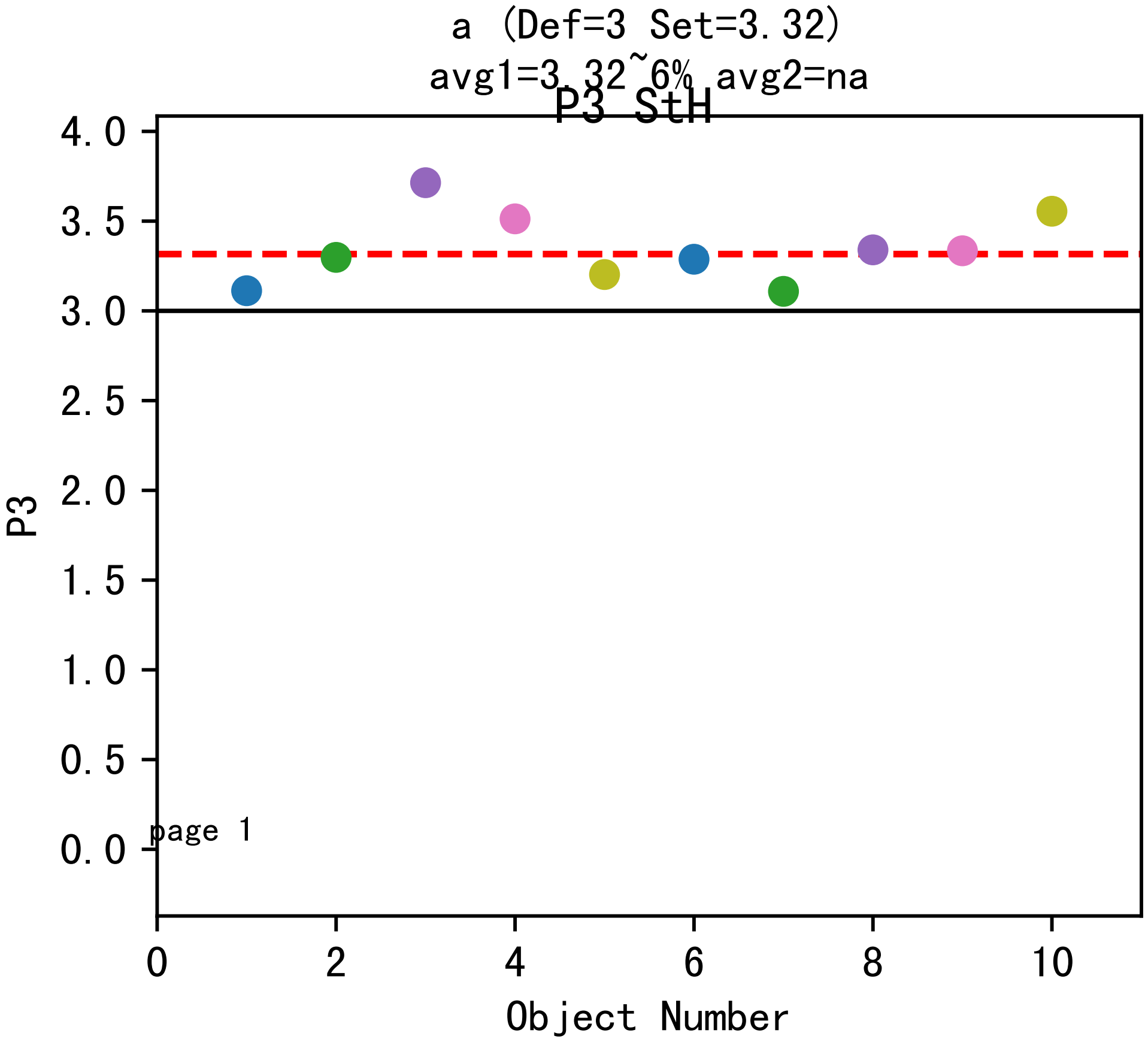
LfN


By Start Date
By Plant/Organ Age
P3
1.0
0.5
0.0
−0.5
−1.0
25
30
35
40
45
50
55
60
0
10
20
30
40
50
60
page 2

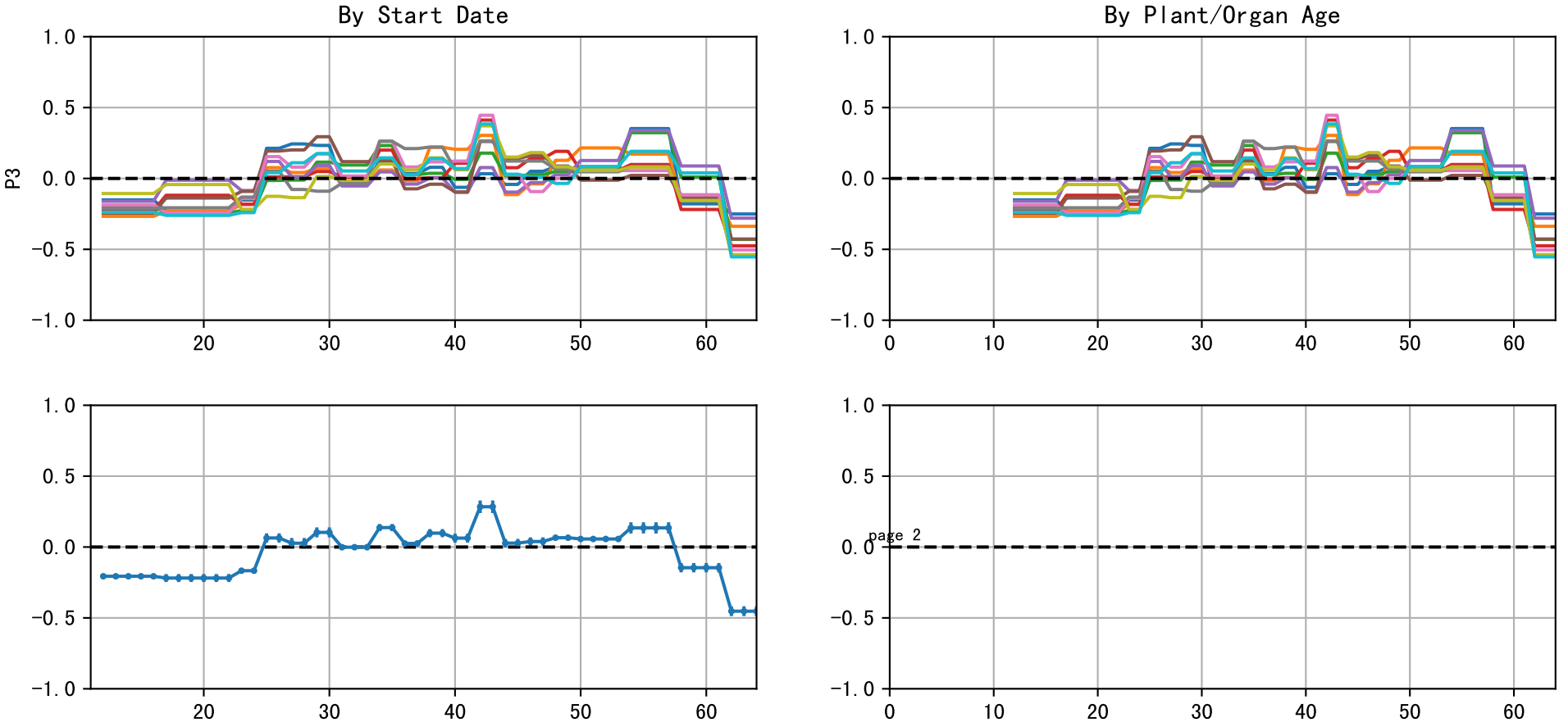
StH

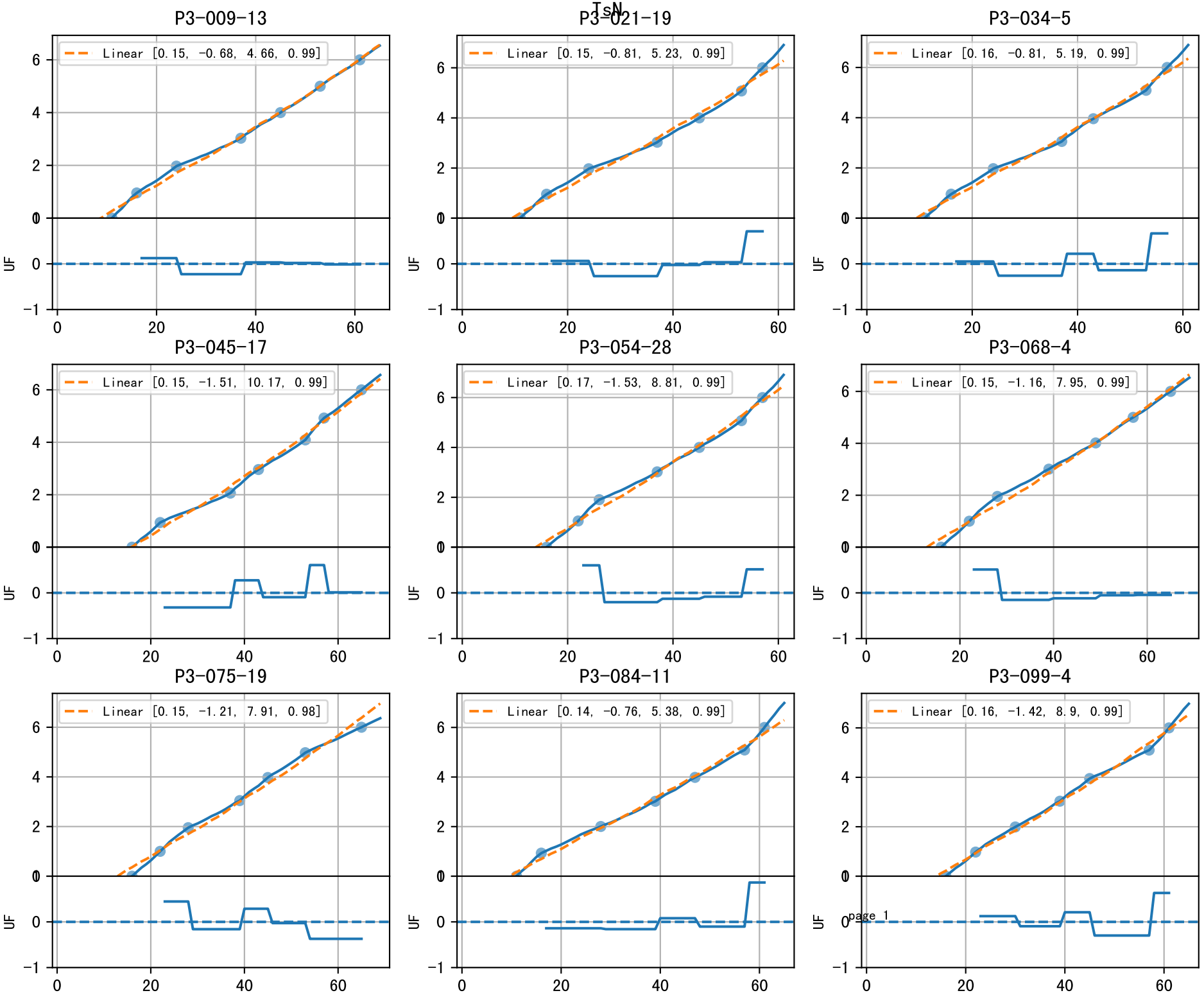

P3-009-13
Linear [3.11, -9.44, 3.03, 1.0]
P3-021-19
Linear [3.3, -12.05, 3.65, 0.99]
P3-034-5
Linear [3.71, -14.78, 3.98, 0.99]
P3-045-17
Linear [3.51, -8.83, 2.51, 0.99]
P3-054-28
Linear [3.2, -7.62, 2.38, 1.0]
P3-068-4
Linear [3.29, -6.56, 2.0, 1.0]
P3-075-19
Linear [3.11, -9.61, 3.09, 0.99]
P3-084-11
Linear [3.34, -10.25, 3.07, 0.99]
P3-099-4
Linear [3.33, -9.55, 2.86, 0.99]
UF

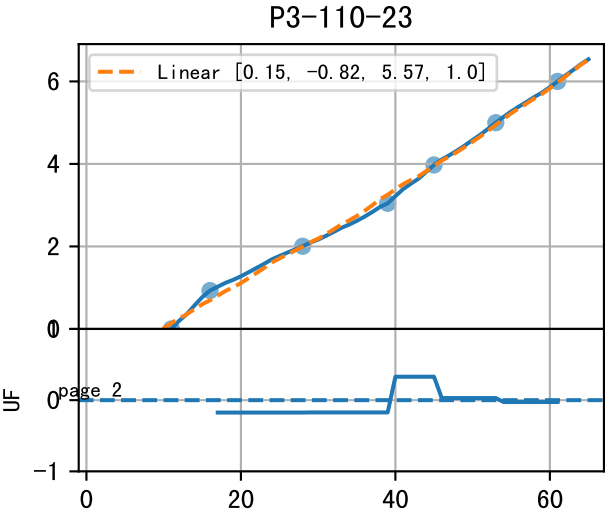

P3-110-23
Linear [3.56, -14.17, 3.99, 0.99]
150
100
50
0
UF
0
-1
0
20
40
60


a (Def=3 Set=3.32)
avg1=3.32~6% avg2=na
P3 StH
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
P3
page 1
0
2
4
6
8
10
Object Number

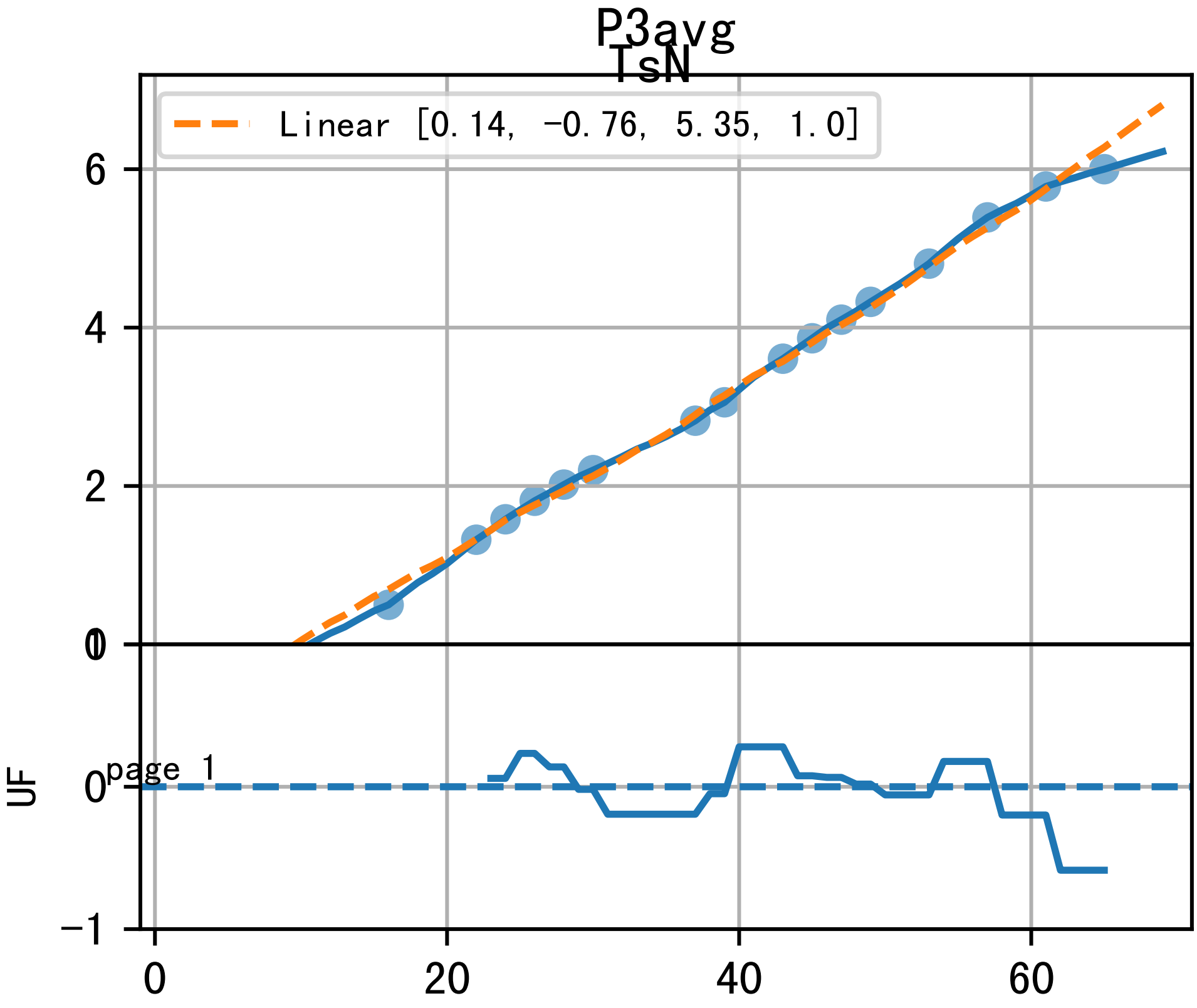
StH

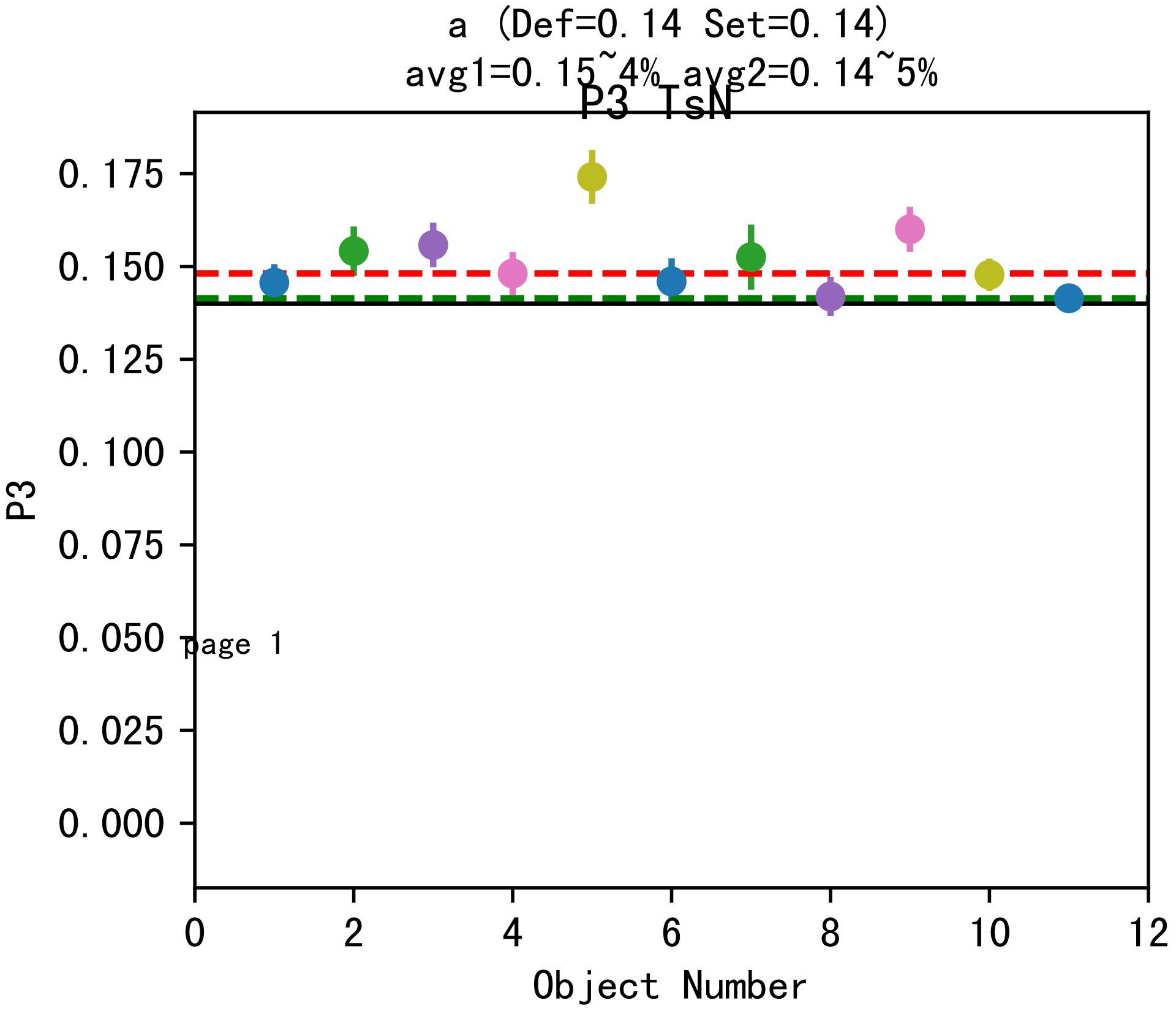

By Start Date
By Plant/Organ Age
P3
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
60
page 2


P3-009-13
Linear [0.15, -0.68, 4.66, 0.99]
P3-021-19
Linear [0.15, -0.81, 5.23, 0.99]
P3-034-5
Linear [0.16, -0.81, 5.19, 0.99]
P3-045-17
Linear [0.15, -1.51, 10.17, 0.99]
P3-054-28
Linear [0.17, -1.53, 8.81, 0.99]
P3-068-4
Linear [0.15, -1.16, 7.95, 0.99]
P3-075-19
Linear [0.15, -1.21, 7.91, 0.98]
P3-084-11
Linear [0.14, -0.76, 5.38, 0.99]
P3-099-4
Linear [0.16, -1.42, 8.9, 0.99]
UF

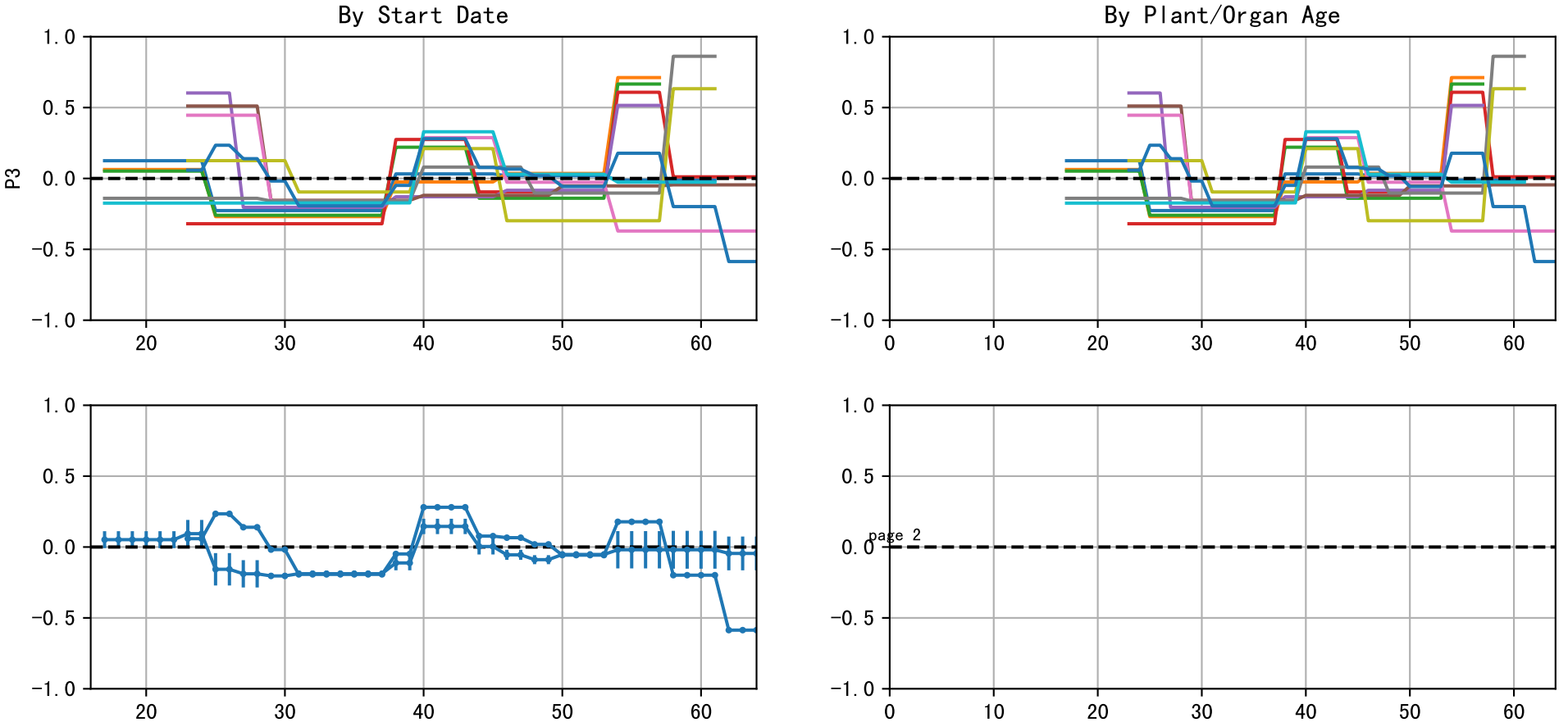


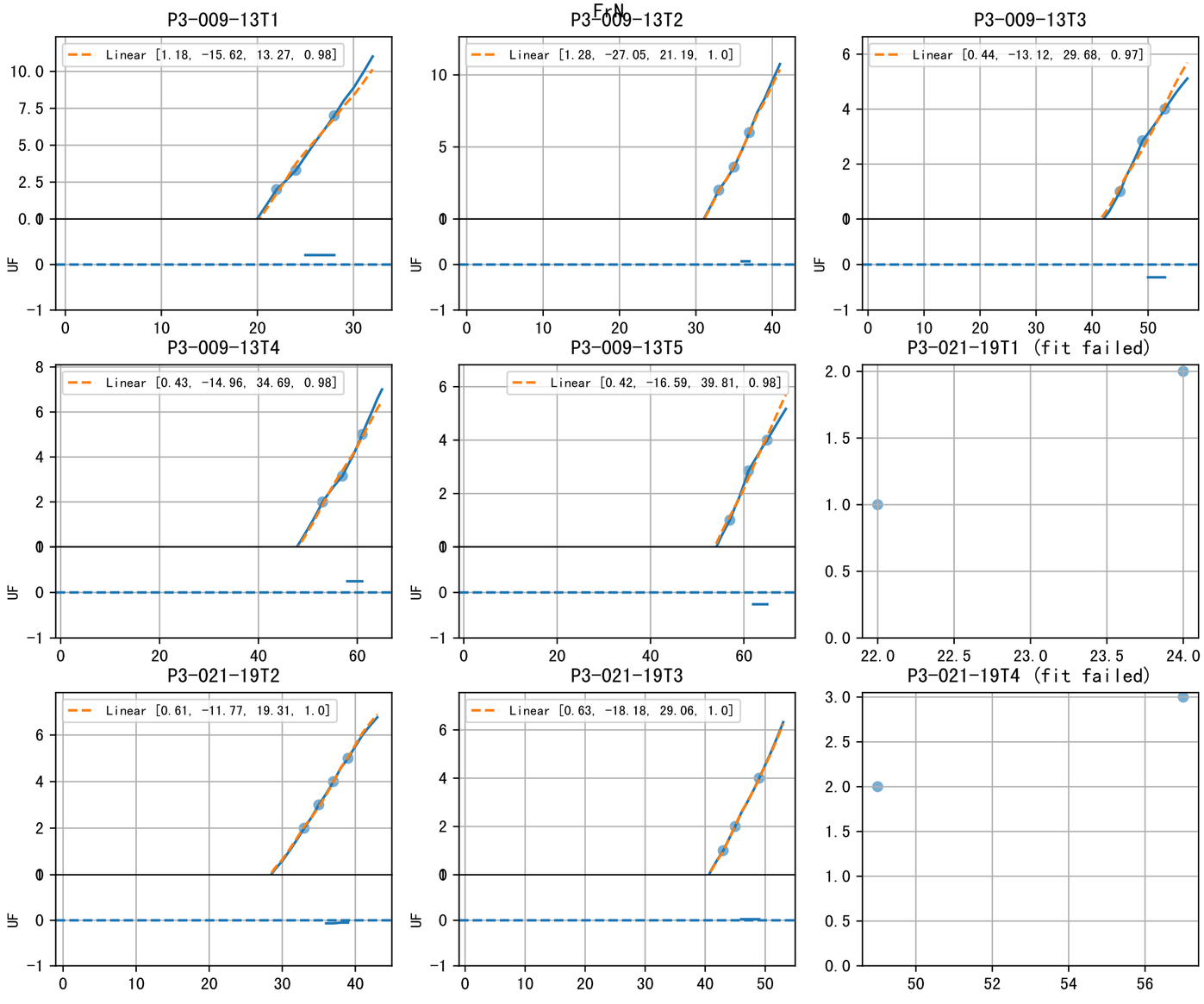
TsN

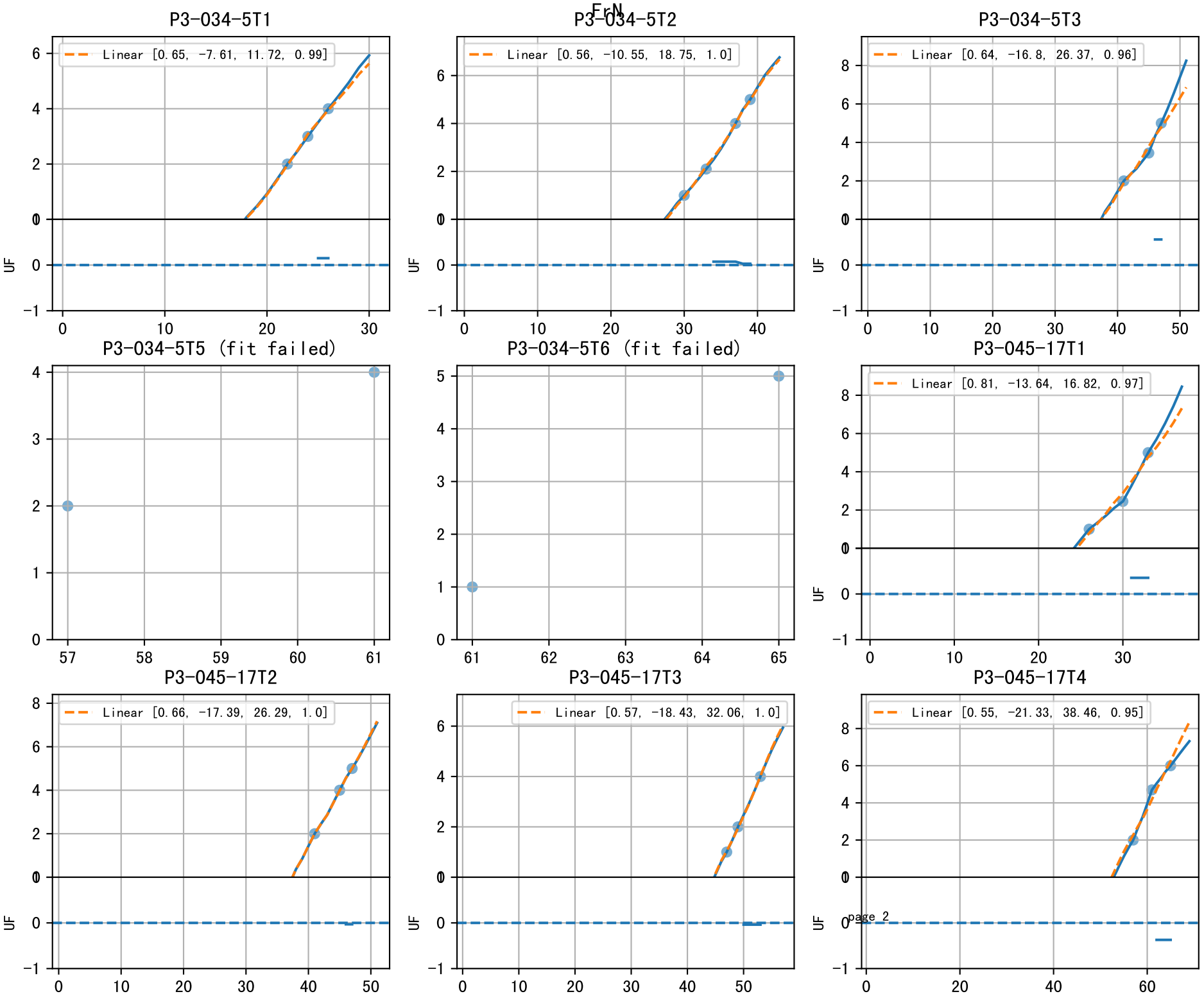

P3avg
TsN
Linear [0.14, -0.76, 5.35, 1.0]
6
4
2
0
0
-1
UF
0
20
40
60

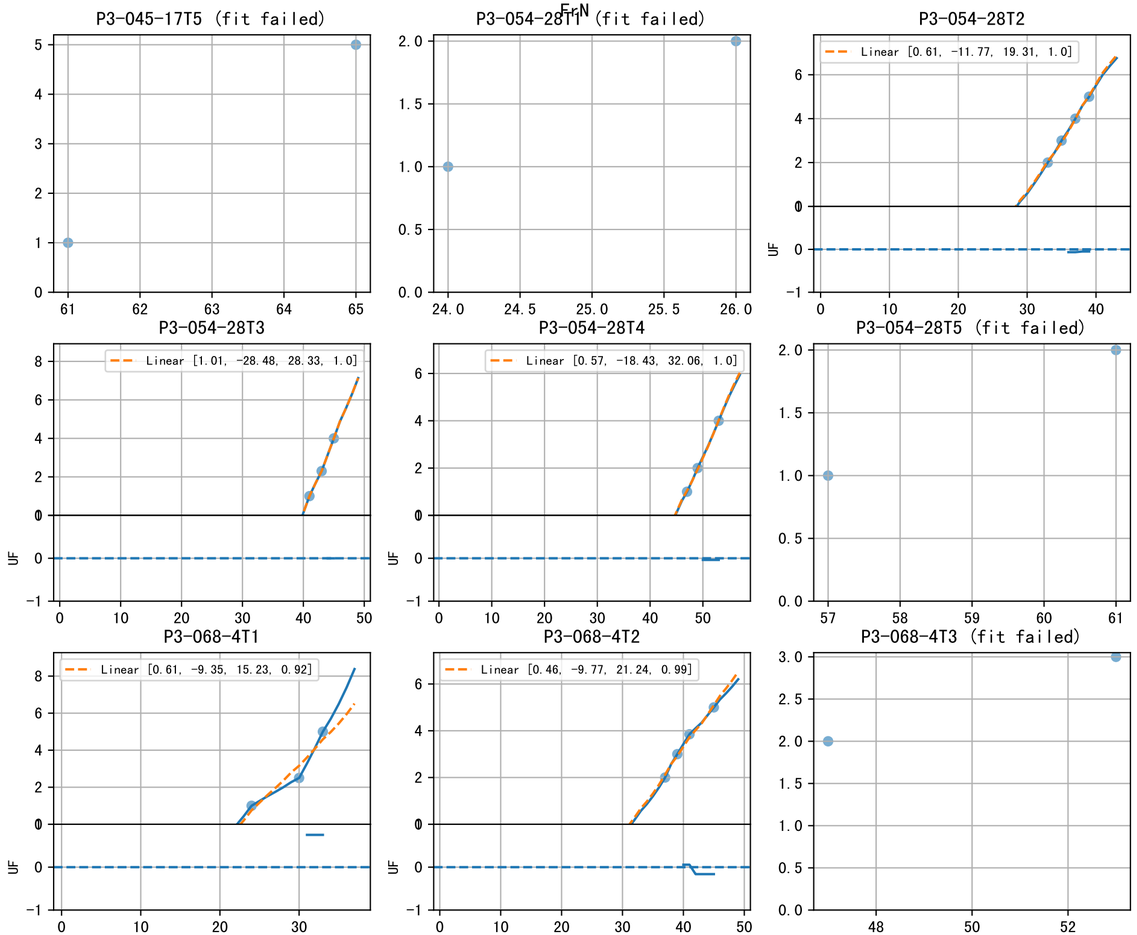

a (Def=0.14 Set=0.14)
avg1=0.15~4% avg2=0.14~5%
P3 TsN
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
P3
page 1
0
2
4
6
8
10
12
Object Number

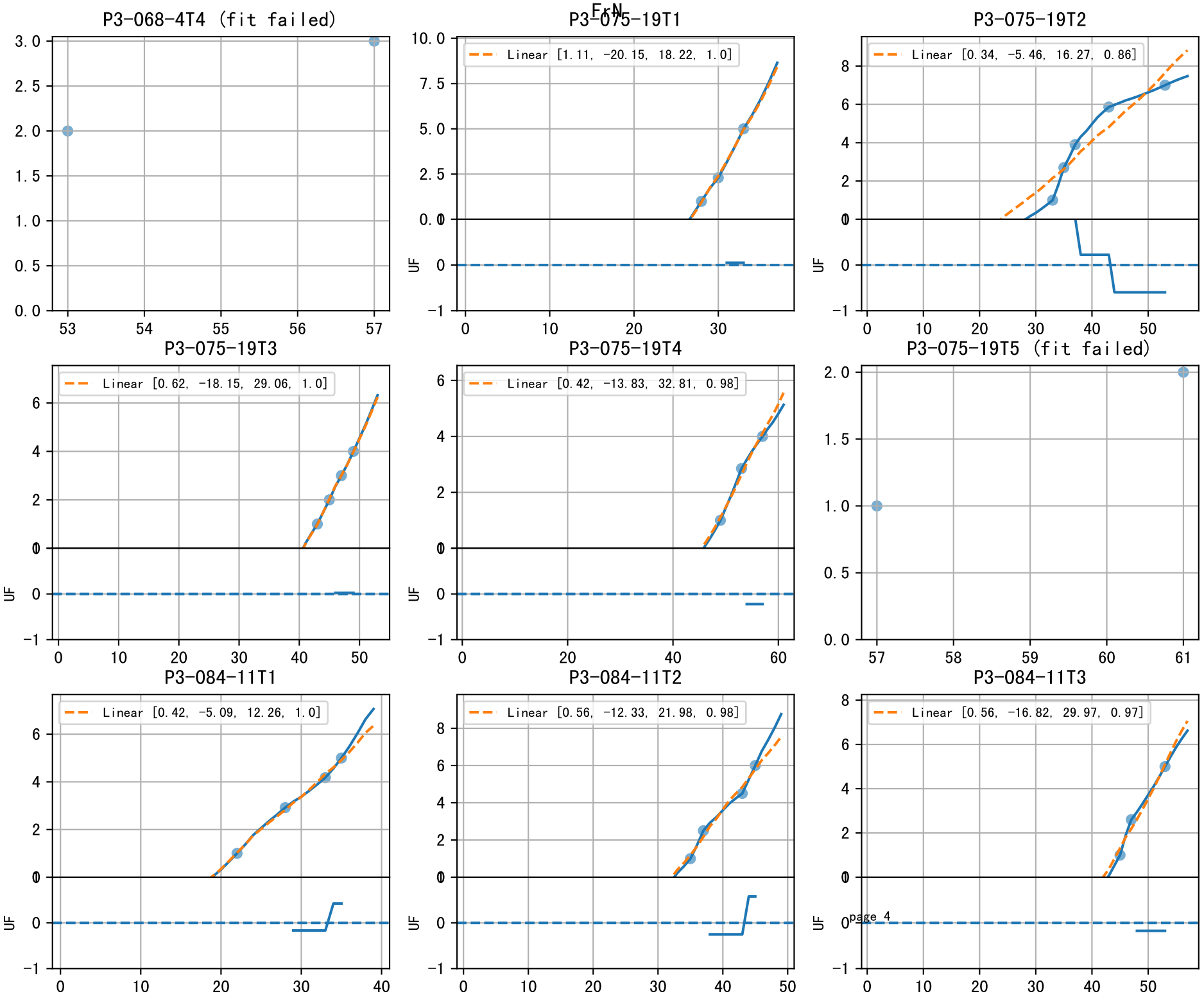
TsN

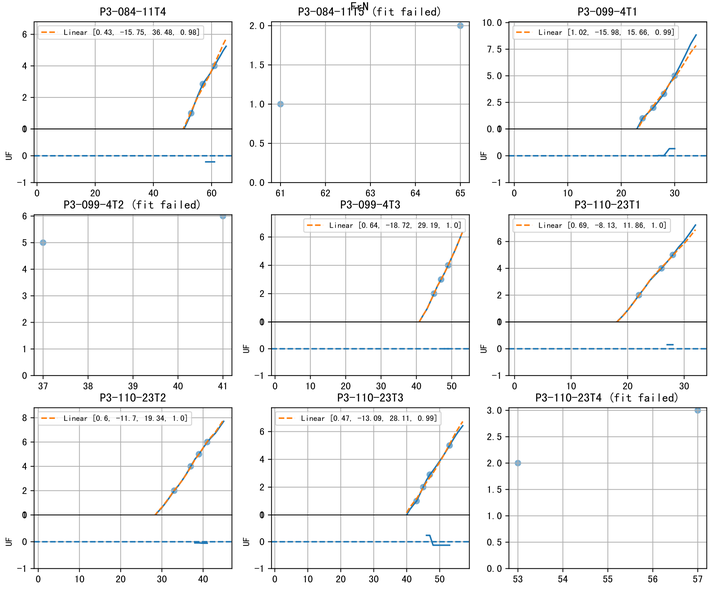

By Start Date
By Plant/Organ Age
P3
1.0
0.5
0.0
−0.5
−1.0
20
30
40
50
60
0
10
page 2

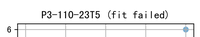

P3-009-13T1
Linear [1.18, -15.62, 13.27, 0.98]
P3-009-13T2
Linear [1.28, -27.05, 21.19, 1.0]
P3-009-13T3
Linear [0.44, -13.12, 29.68, 0.97]
P3-009-13T4
Linear [0.43, -14.96, 34.69, 0.98]
P3-009-13T5
Linear [0.42, -16.59, 39.81, 0.98]
P3-021-19T1 (fit failed)
P3-021-19T2
Linear [0.61, -11.77, 19.31, 1.0]
P3-021-19T3
Linear [0.63, -18.18, 29.06, 1.0]
P3-021-19T4 (fit failed)
UF

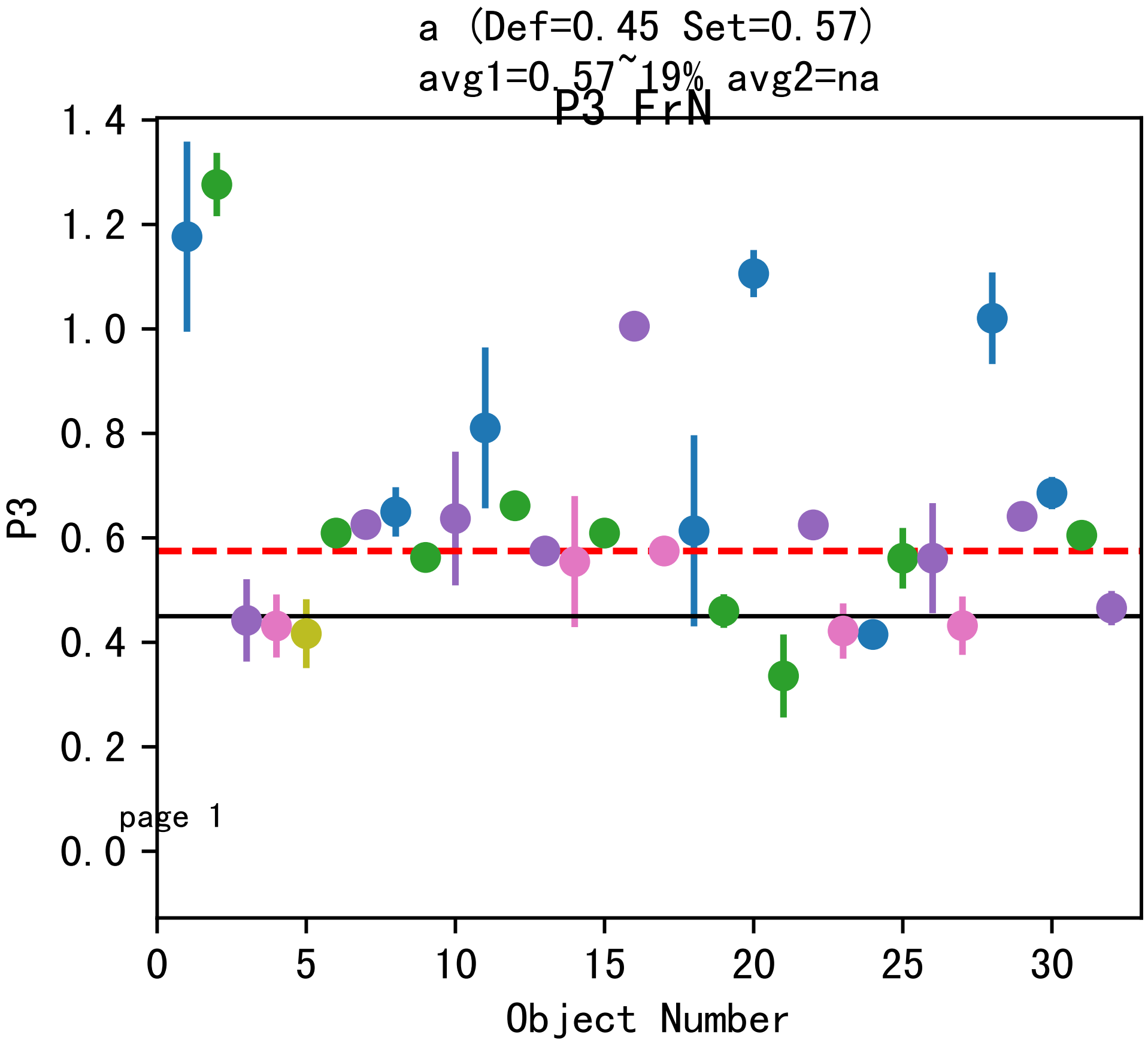

FrN
P3-034-5T1
Linear [0.65, -7.61, 11.72, 0.99]
P3-034-5T2
Linear [0.56, -10.55, 18.75, 1.0]
P3-034-5T3
Linear [0.64, -16.8, 26.37, 0.96]
P3-034-5T5 (fit failed)
P3-034-5T6 (fit failed)
P3-045-17T1
Linear [0.81, -13.64, 16.82, 0.97]
P3-045-17T2
Linear [0.66, -17.39, 26.29, 1.0]
P3-045-17T3
Linear [0.57, -18.43, 32.06, 1.0]
P3-045-17T4
Linear [0.55, -21.33, 38.46, 0.95]
UF


F-N
P3-045-17T5 (fit failed)
P3-054-28T1 (fit failed)
P3-054-28T2
Linear [0.61, -11.77, 19.31, 1.0]
P3-054-28T3
Linear [1.01, -28.48, 28.33, 1.0]
P3-054-28T4
Linear [0.57, -18.43, 32.06, 1.0]
P3-054-28T5 (fit failed)
P3-068-4T1
Linear [0.61, -9.35, 15.23, 0.92]
P3-068-4T2
Linear [0.46, -9.77, 21.24, 0.99]
P3-068-4T3 (fit failed)
UF

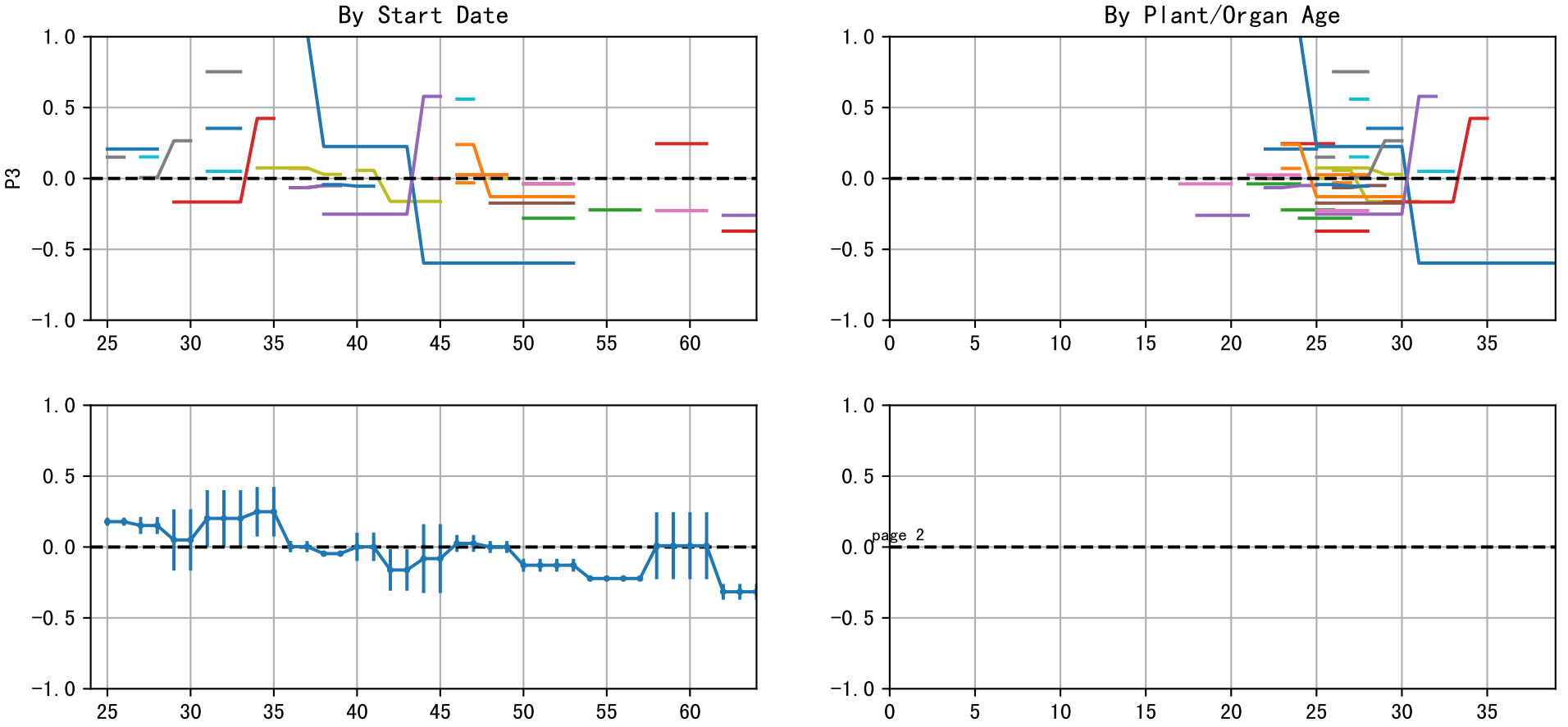

FrN
P3-068-4T4 (fit failed)
P3-075-19T1
Linear [1.11, -20.15, 18.22, 1.0]
P3-075-19T2
Linear [0.34, -5.46, 16.27, 0.86]
P3-075-19T3
Linear [0.62, -18.15, 29.06, 1.0]
P3-075-19T4
Linear [0.42, -13.83, 32.81, 0.98]
P3-075-19T5 (fit failed)
P3-084-11T1
Linear [0.42, -5.09, 12.26, 1.0]
P3-084-11T2
Linear [0.56, -12.33, 21.98, 0.98]
P3-084-11T3
Linear [0.56, -16.82, 29.97, 0.97]
UF

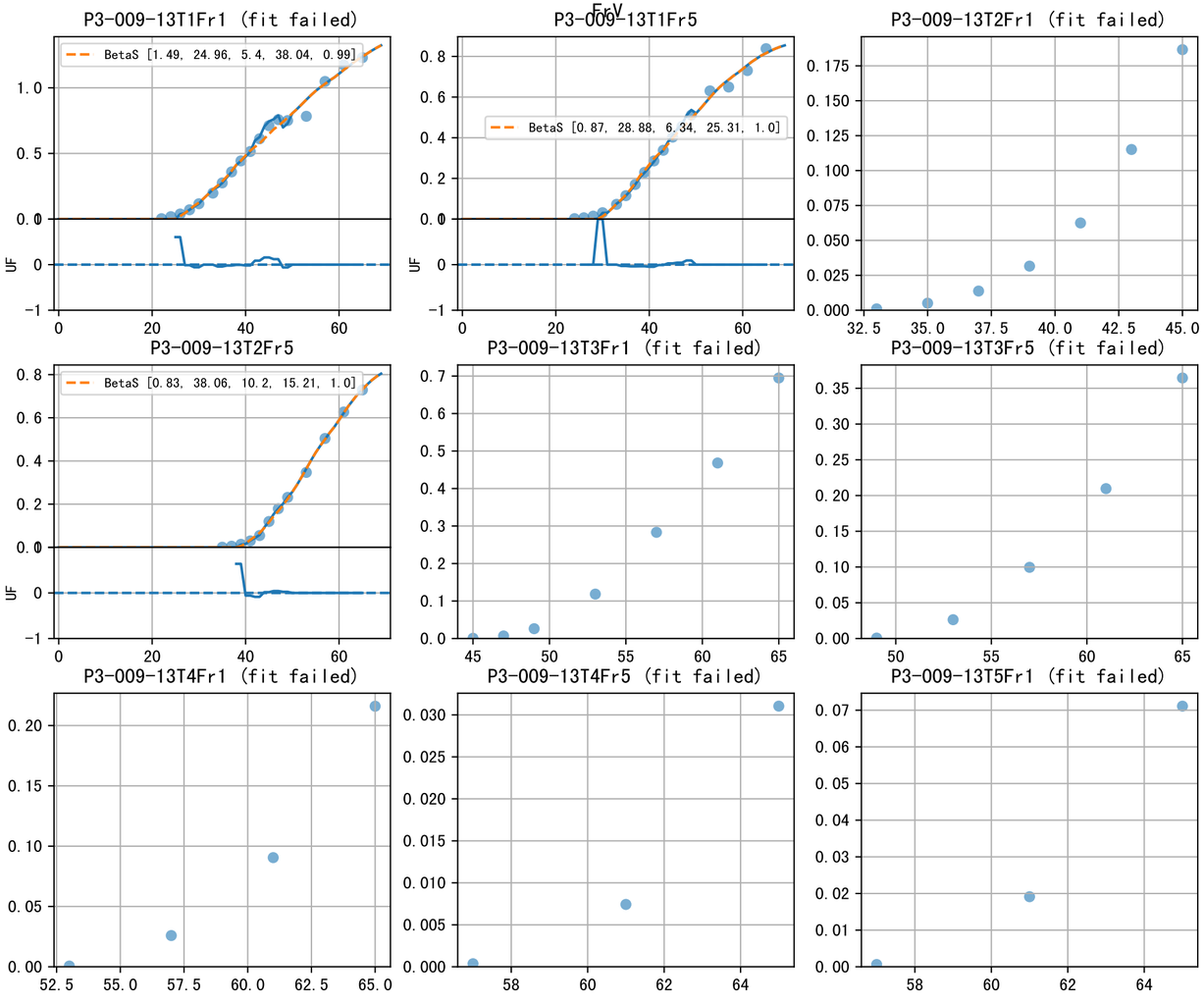

FcN
P3-084-11T4
Linear [0.43, -15.75, 36.48, 0.98]
P3-084-11T9 (fit failed)
P3-099-4T1
Linear [1.02, -15.98, 15.66, 0.99]
P3-099-4T2 (fit failed)
P3-099-4T3
Linear [0.64, -18.72, 29.19, 1.0]
P3-110-23T1
Linear [0.69, -8.13, 11.86, 1.0]
P3-110-23T2
Linear [0.6, -11.7, 19.34, 1.0]
P3-110-23T3
Linear [0.47, -13.09, 28.11, 0.99]
P3-110-23T4 (fit failed)
UF

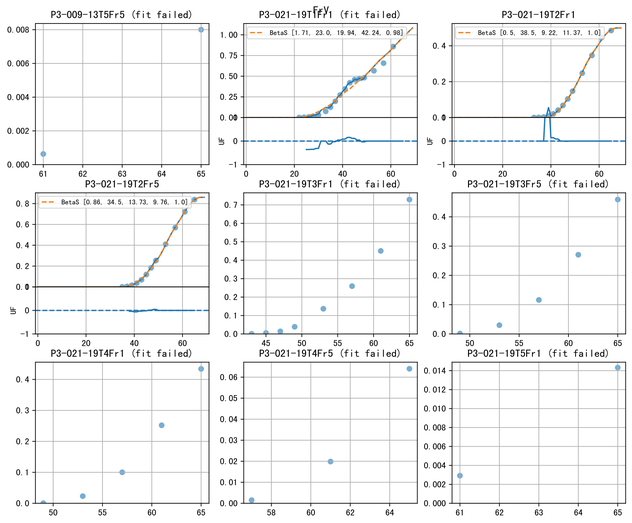

P3-110-23T5 (fit failed)
6
5
4
3
2
1
0
57
58
59
60
61

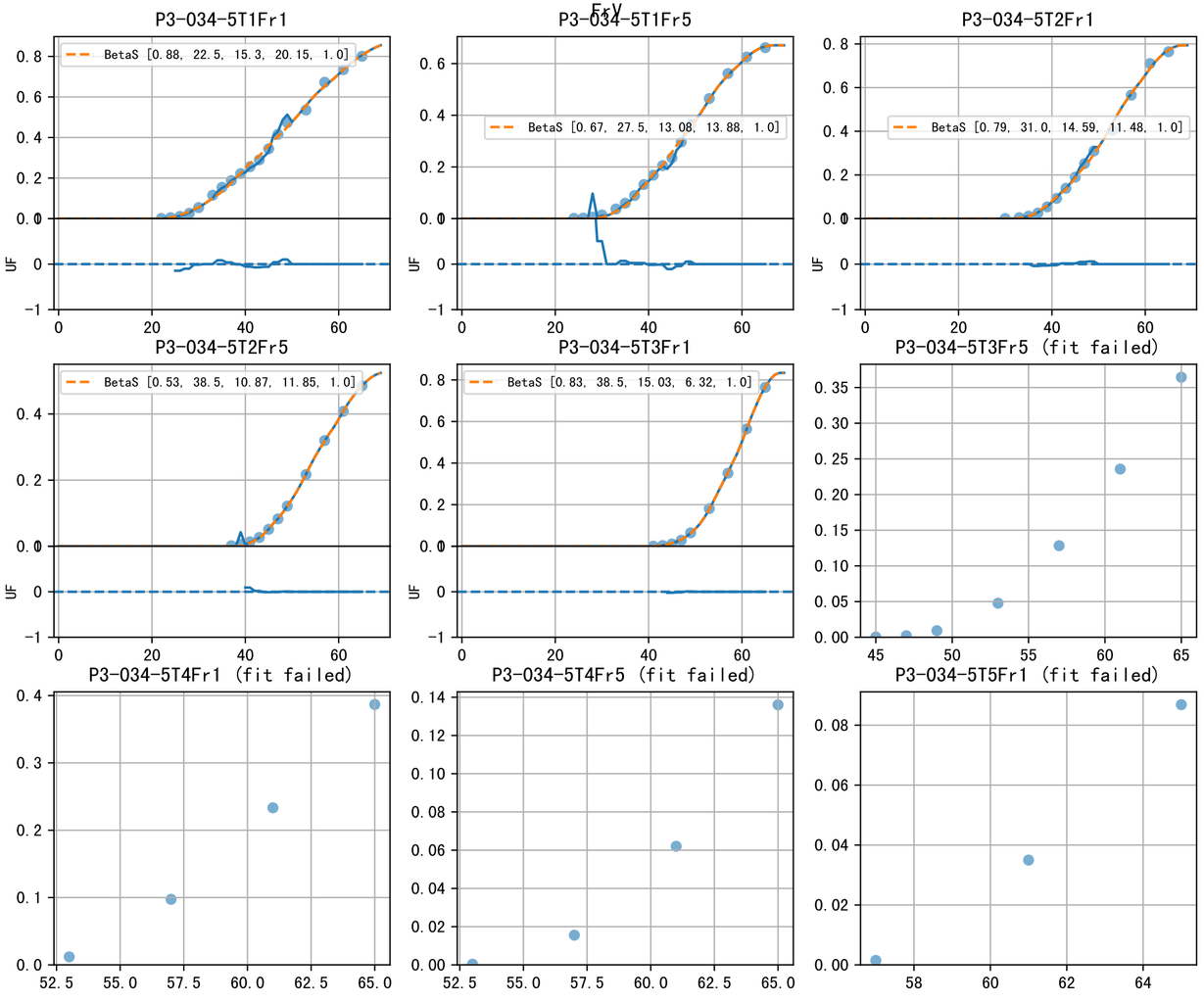

a (Def=0.45 Set=0.57)
avg1=0.57~19% avg2=na
P3 FrN
P3
Object Number
page 1
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
20
25
30

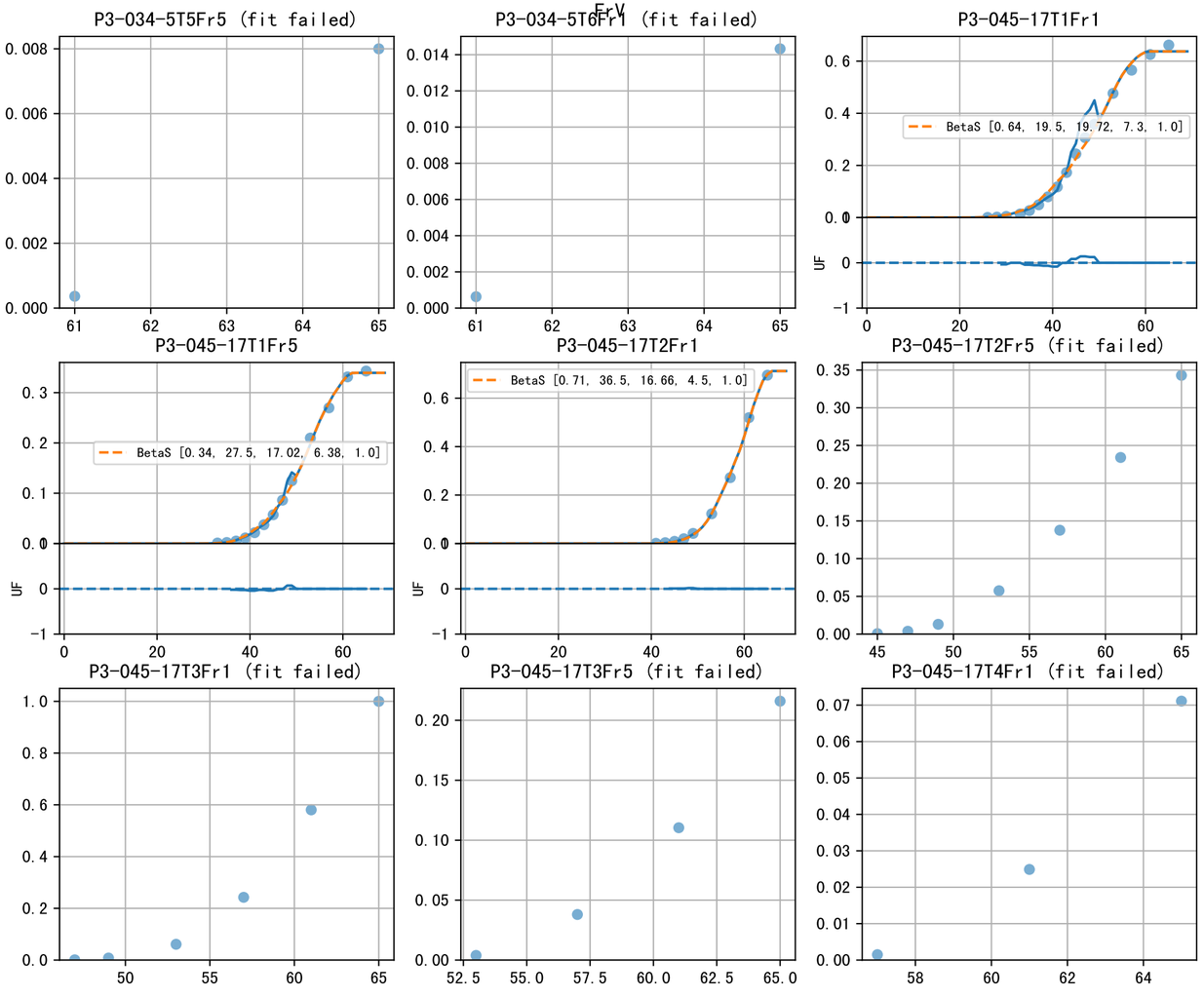
FrN

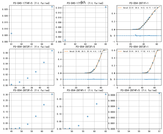

By Start Date
By Plant/Organ Age
P3
1.0
0.5
0.0
−0.5
−1.0
25
30
35
40
45
50
55
60
0
5
10
15
20
25
30
35
page 2

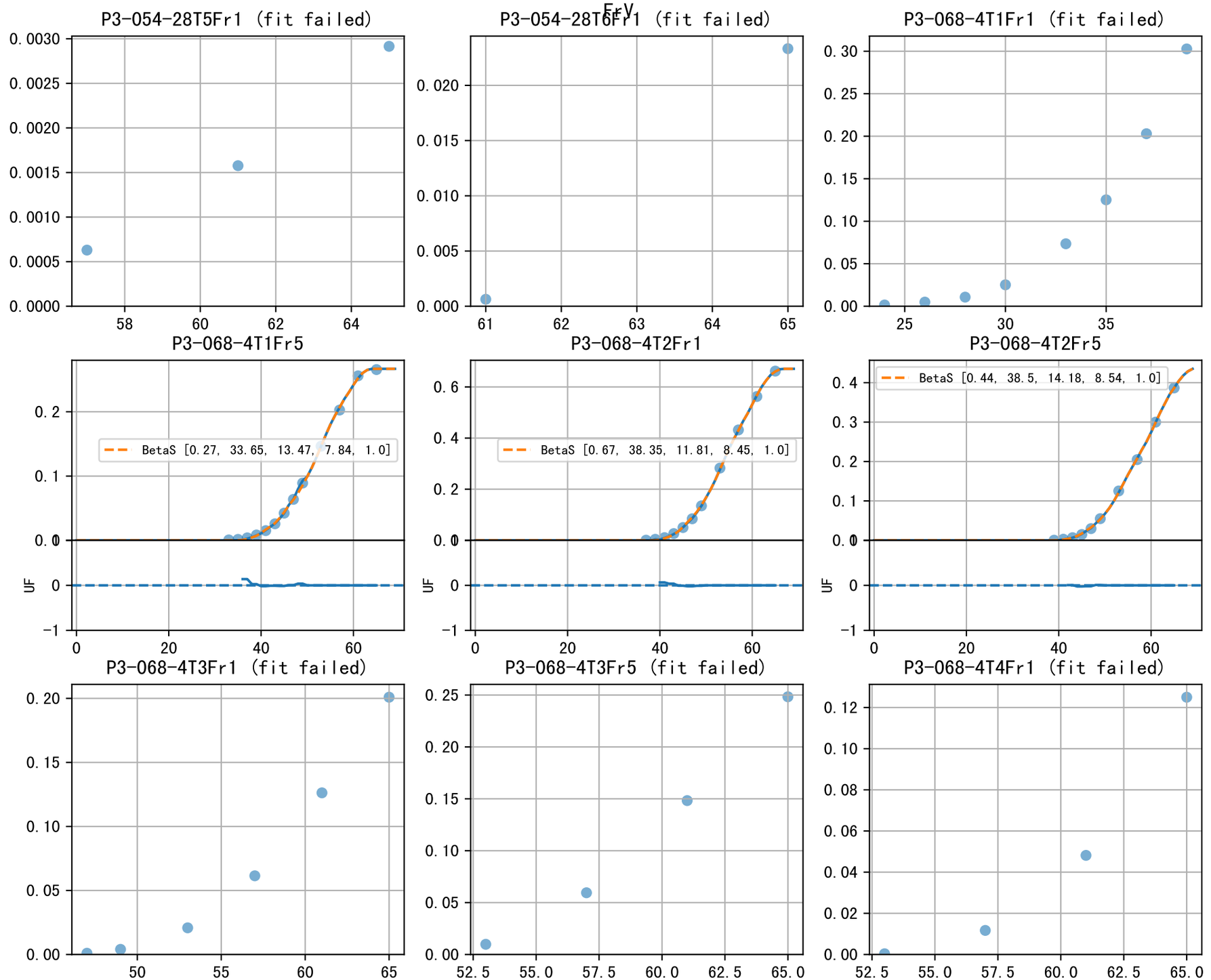

FrV
P3-009-13T1Fr1 (fit failed)
BetaS [1.49, 24.96, 5.4, 38.04, 0.99]
P3-009-13T1Fr5
BetaS [0.87, 28.88, 6.34, 25.31, 1.0]
P3-009-13T2Fr1 (fit failed)
P3-009-13T2Fr5
BetaS [0.83, 38.06, 10.2, 15.21, 1.0]
P3-009-13T3Fr1 (fit failed)
P3-009-13T3Fr5 (fit failed)
P3-009-13T4Fr1 (fit failed)
P3-009-13T4Fr5 (fit failed)
P3-009-13T5Fr1 (fit failed)
UF

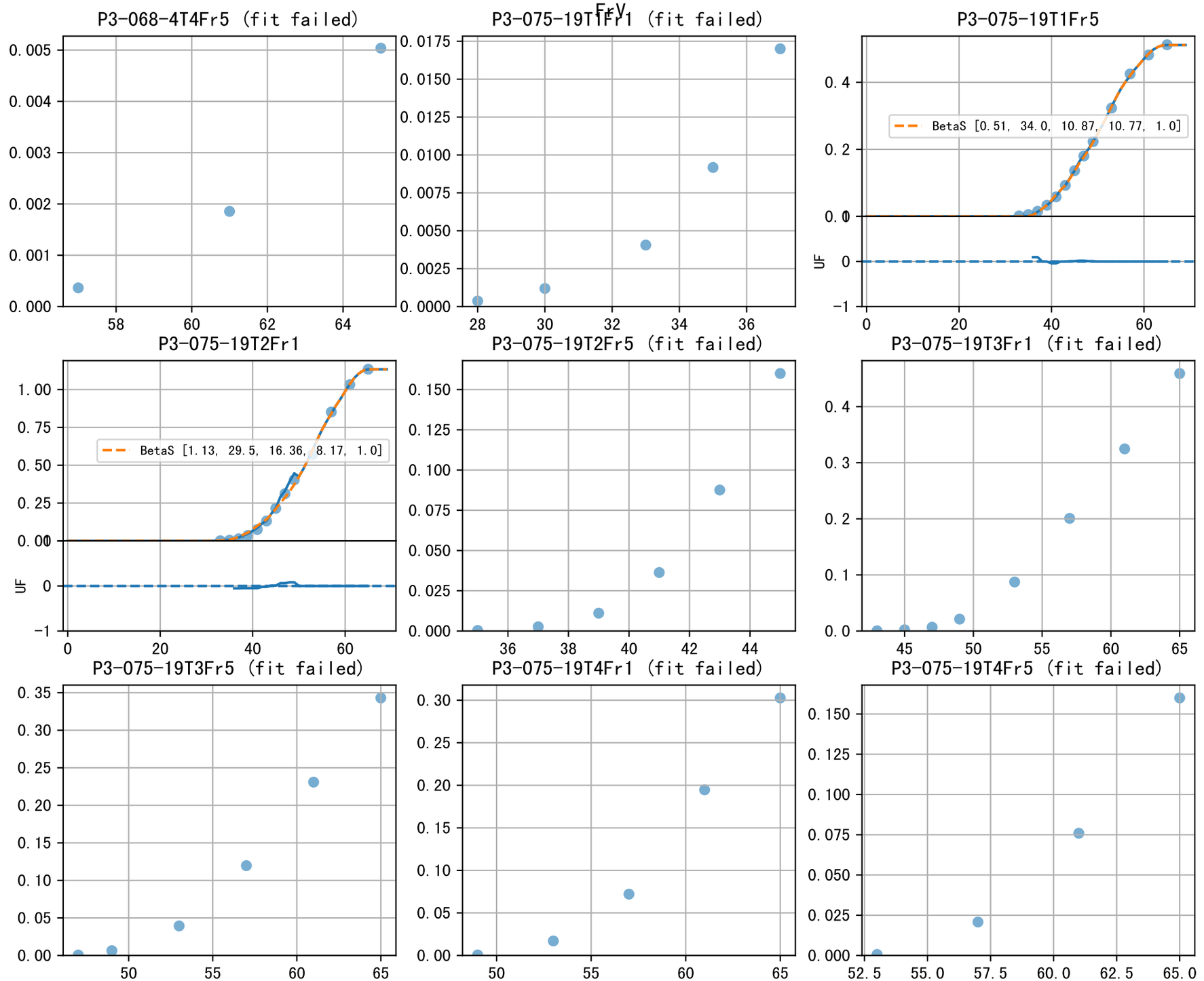

P3-009-13T5Fr5 (fit failed)
P3-021-19T1Fr1 (fit failed)
BetaS [1.71, 23.0, 19.94, 42.24, 0.98]
P3-021-19T2Fr1
BetaS [0.5, 38.5, 9.22, 11.37, 1.0]
P3-021-19T2Fr5
BetaS [0.86, 34.5, 13.73, 9.76, 1.0]
P3-021-19T3Fr1 (fit failed)
P3-021-19T3Fr5 (fit failed)
P3-021-19T4Fr1 (fit failed)
P3-021-19T4Fr5 (fit failed)
P3-021-19T5Fr1 (fit failed)
FrV
UF

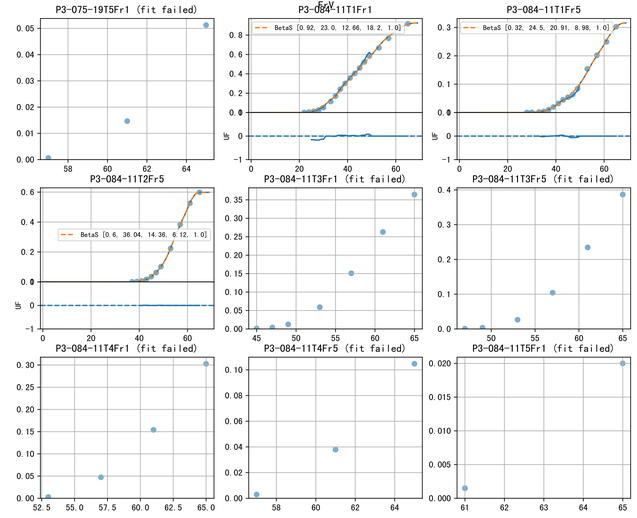

FsY
P3-034-5T1Fr1
BetaS [0.88, 22.5, 15.3, 20.15, 1.0]
P3-034-5T1Fr5
BetaS [0.67, 27.5, 13.08, 13.88, 1.0]
P3-034-5T2Fr1
BetaS [0.79, 31.0, 14.59, 11.48, 1.0]
P3-034-5T2Fr5
BetaS [0.53, 38.5, 10.87, 11.85, 1.0]
P3-034-5T3Fr1
BetaS [0.83, 38.5, 15.03, 6.32, 1.0]
P3-034-5T3Fr5 (fit failed)
P3-034-5T4Fr1 (fit failed)
P3-034-5T4Fr5 (fit failed)
P3-034-5T5Fr1 (fit failed)
UF

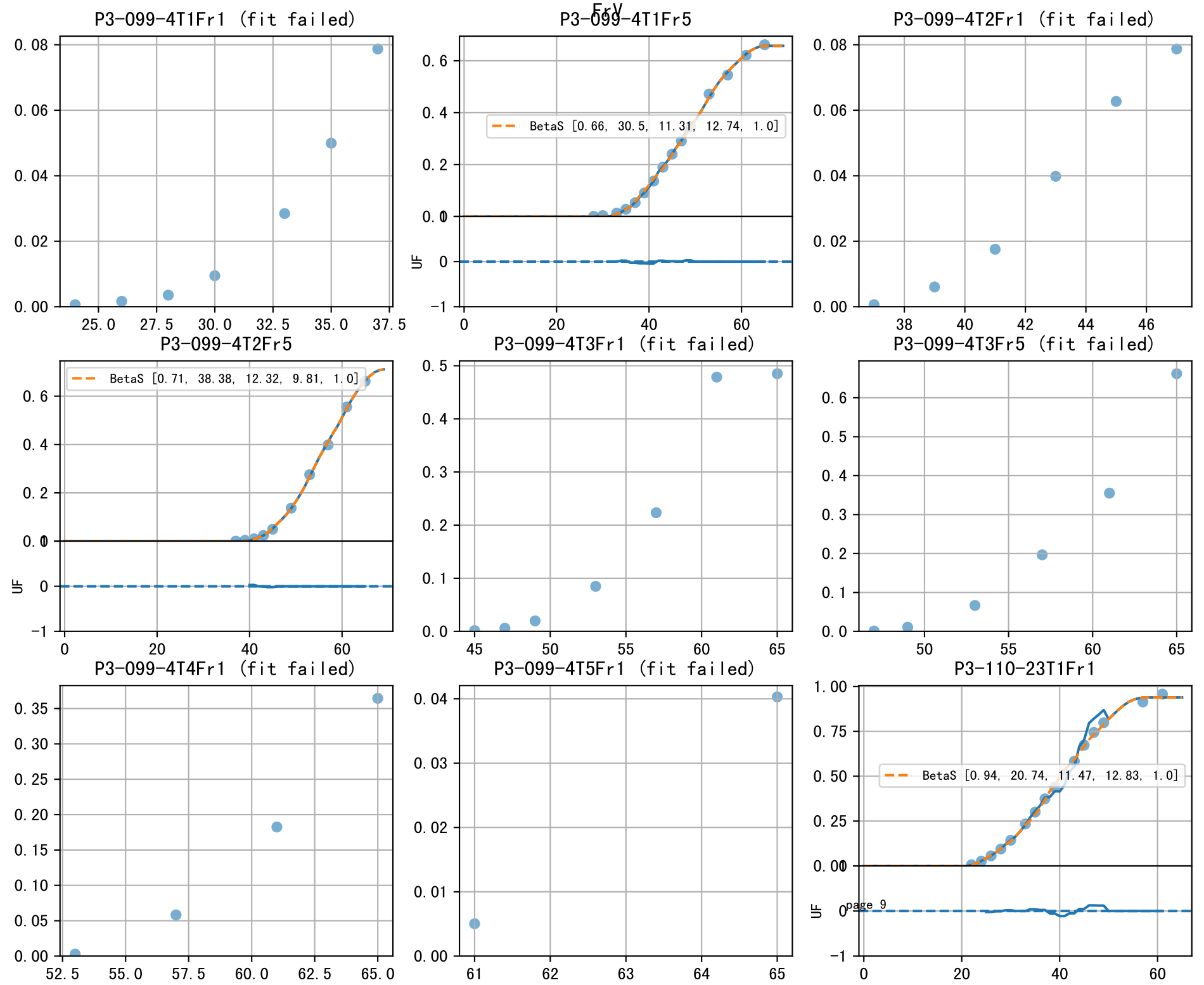

FrV
P3-034-5T5Fr5 (fit failed)
P3-034-5T6Fr1 (fit failed)
P3-045-17T1Fr1
BetaS [0.64, 19.5, 19.72, 7.3, 1.0]
P3-045-17T1Fr5
BetaS [0.34, 27.5, 17.02, 6.38, 1.0]
P3-045-17T2Fr1
BetaS [0.71, 36.5, 16.66, 4.5, 1.0]
P3-045-17T2Fr5 (fit failed)
P3-045-17T3Fr1 (fit failed)
P3-045-17T3Fr5 (fit failed)
P3-045-17T4Fr1 (fit failed)
UF

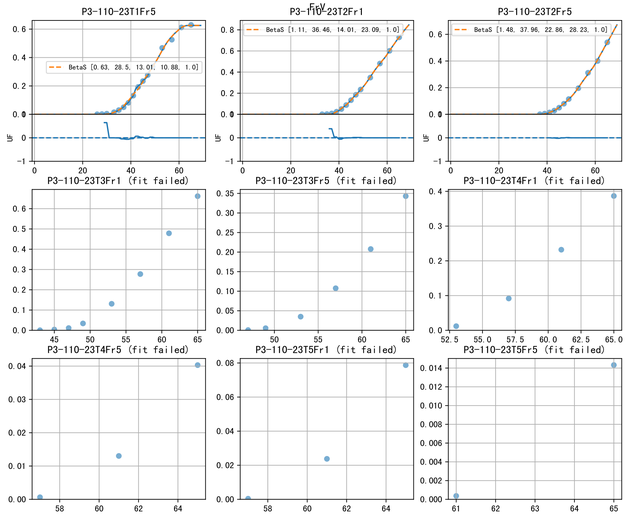


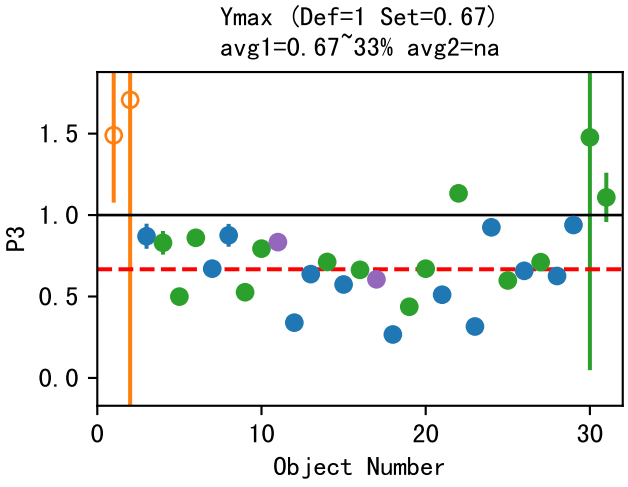

FrV
P3-054-28T5Fr1 (fit failed)
P3-054-28T6Fr1 (fit failed)
P3-068-4T1Fr1 (fit failed)
P3-068-4T1Fr5
BetaS [0.27, 33.65, 13.47, 7.84, 1.0]
P3-068-4T2Fr1
BetaS [0.67, 38.35, 11.81, 8.45, 1.0]
P3-068-4T2Fr5
BetaS [0.44, 38.5, 14.18, 8.54, 1.0]
UF
P3-068-4T3Fr1 (fit failed)
P3-068-4T3Fr5 (fit failed)
P3-068-4T4Fr1 (fit failed)

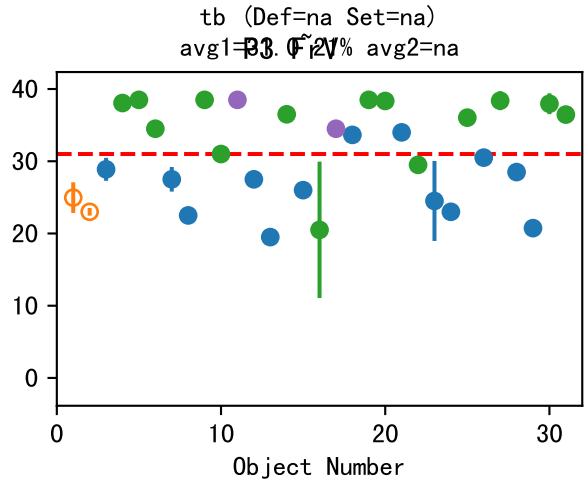

FrV
P3-068-4T4Fr5 (fit failed)
P3-075-19T1Fr1 (fit failed)
P3-075-19T1Fr5
BetaS [0.51, 34.0, 10.87, 10.77, 1.0]
P3-075-19T2Fr1
BetaS [1.13, 29.5, 16.36, 8.17, 1.0]
P3-075-19T2Fr5 (fit failed)
P3-075-19T3Fr1 (fit failed)
P3-075-19T3Fr5 (fit failed)
P3-075-19T4Fr1 (fit failed)
P3-075-19T4Fr5 (fit failed)
UF

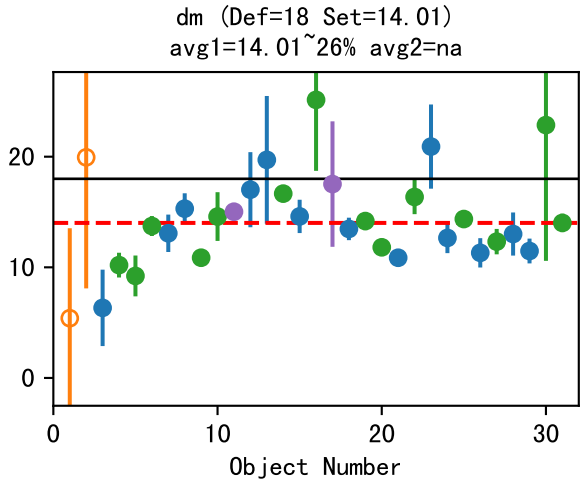

P3-075-19T5Fr1 (fit failed)
P3-084-11T1Fr1
BetaS [0.92, 23.0, 12.66, 18.2, 1.0]
P3-084-11T1Fr5
BetaS [0.32, 24.5, 20.91, 8.98, 1.0]
P3-084-11T2Fr5
BetaS [0.6, 36.04, 14.36, 6.12, 1.0]
P3-084-11T3Fr1 (fit failed)
P3-084-11T3Fr5 (fit failed)
P3-084-11T4Fr1 (fit failed)
P3-084-11T4Fr5 (fit failed)
P3-084-11T5Fr1 (fit failed)
FracV
UF

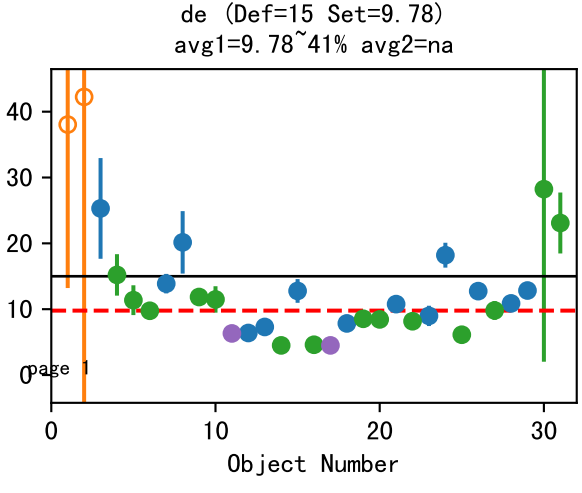

FrV
P3-099-4T1Fr1 (fit failed)
P3-099-4T1Fr5
BetaS [0.66, 30.5, 11.31, 12.74, 1.0]
P3-099-4T2Fr1 (fit failed)
P3-099-4T2Fr5
BetaS [0.71, 38.38, 12.32, 9.81, 1.0]
P3-099-4T3Fr1 (fit failed)
P3-099-4T3Fr5 (fit failed)
P3-099-4T4Fr1 (fit failed)
P3-099-4T5Fr1 (fit failed)
P3-110-23T1Fr1
BetaS [0.94, 20.74, 11.47, 12.83, 1.0]
UF


P3-110-23T1Fr5
BetaS [0.63, 28.5, 13.01, 10.88, 1.0]
P3-110-23T2Fr1
BetaS [1.11, 36.46, 14.01, 23.09, 1.0]
P3-110-23T2Fr5
BetaS [1.48, 37.96, 22.86, 28.23, 1.0]
UF
P3-110-23T3Fr1 (fit failed)
P3-110-23T3Fr5 (fit failed)
P3-110-23T4Fr1 (fit failed)
P3-110-23T4Fr5 (fit failed)
P3-110-23T5Fr1 (fit failed)
P3-110-23T5Fr5 (fit failed)

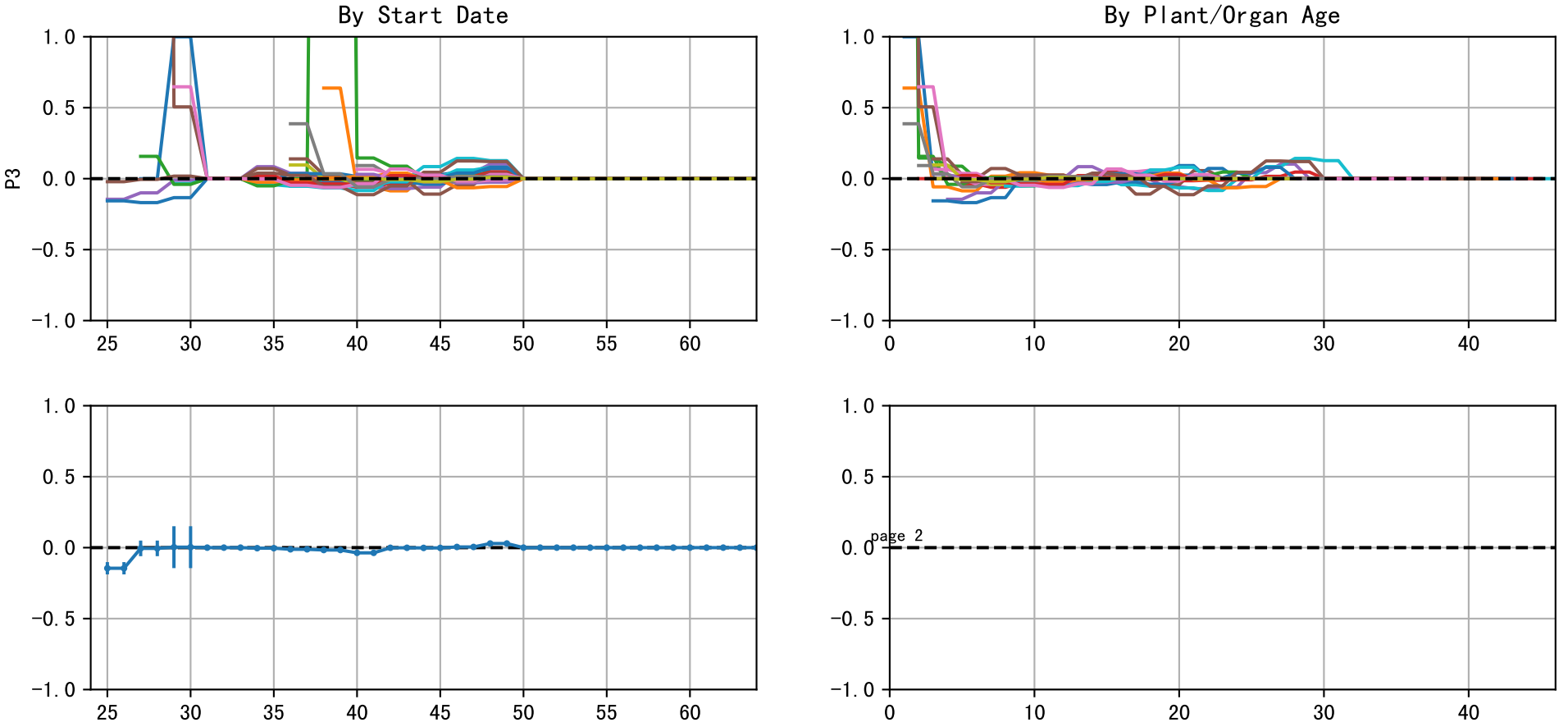

Ymax (Def=1 Set=0.67)
avg1=0.67~33% avg2=na
P3
Object Number

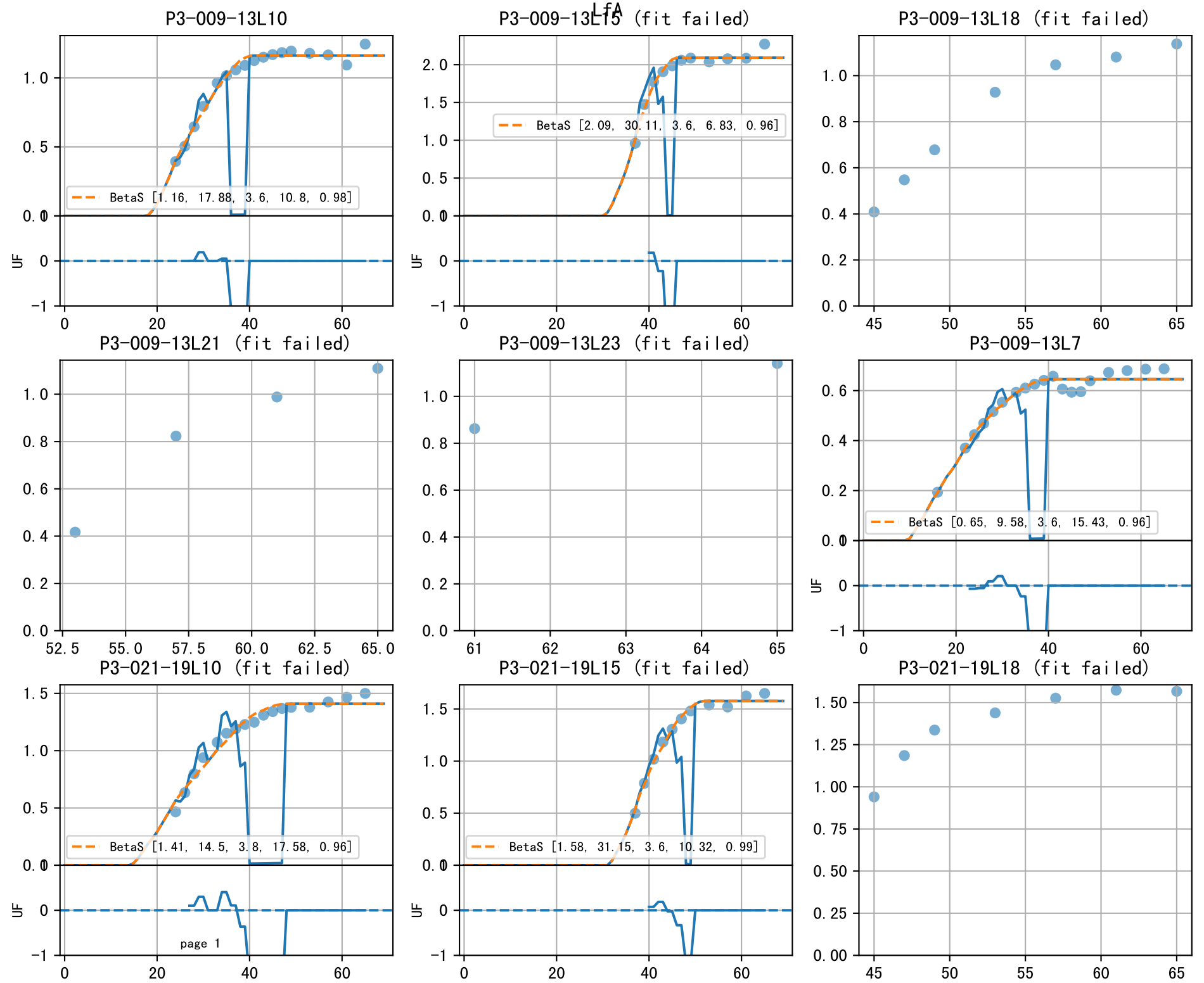

tb (Def=na Set=na)
avg1=33.0~27% avg2=na
Object Number

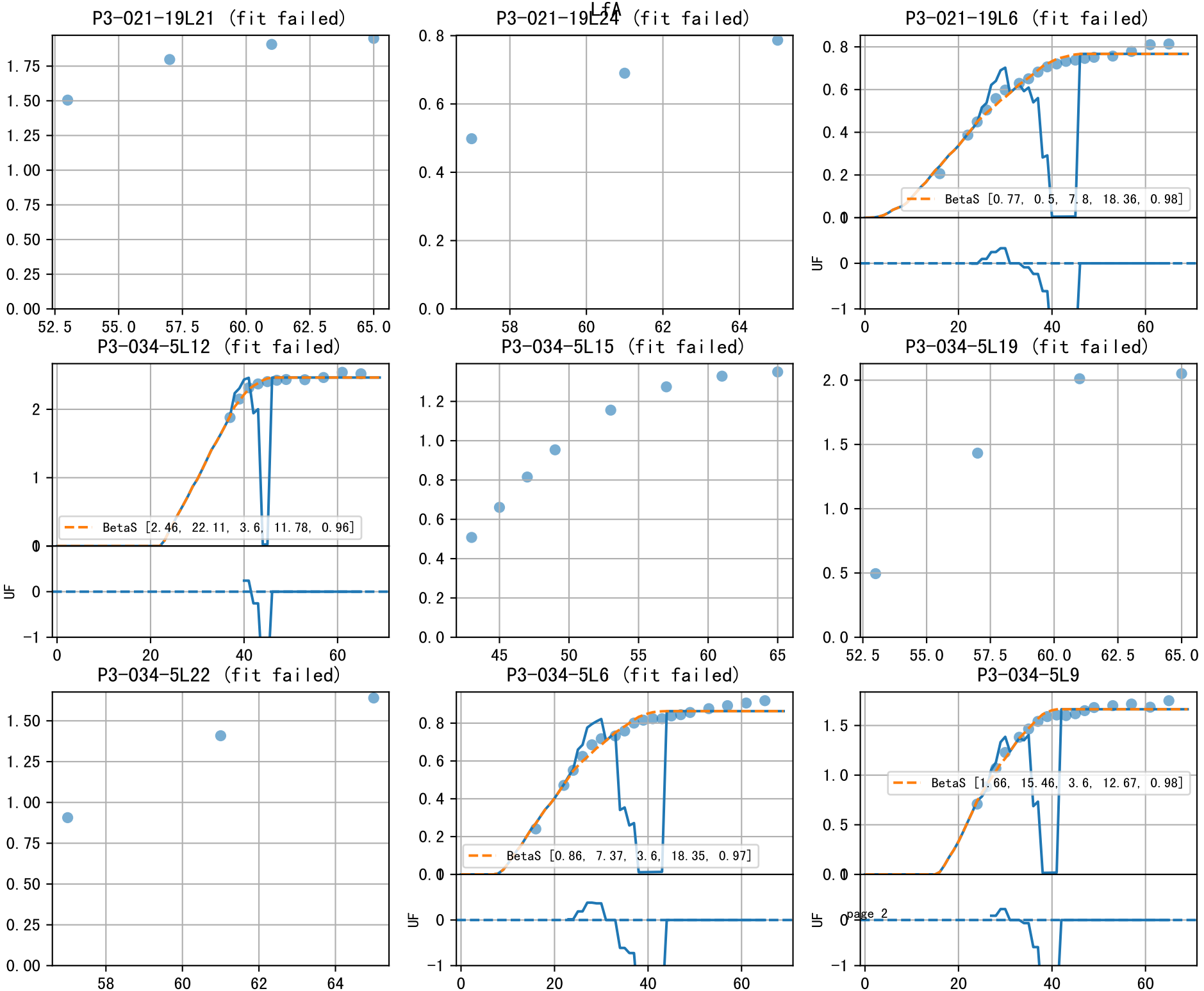

dm (Def=18 Set=14.01)
avg1=14.01~26% avg2=na
Object Number

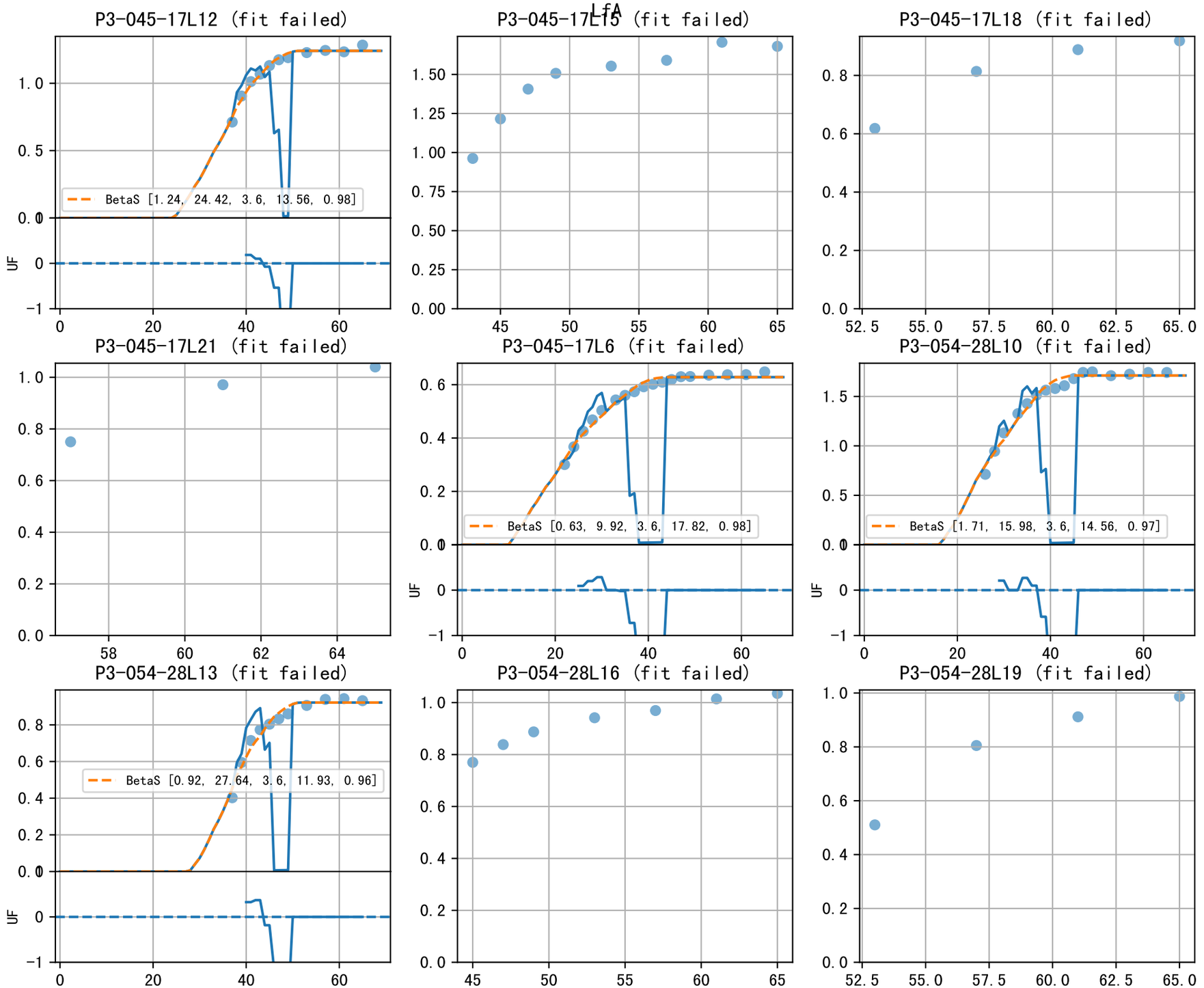

de (Def=15 Set=9.78)
avg1=9.78~41% avg2=na
Object Number

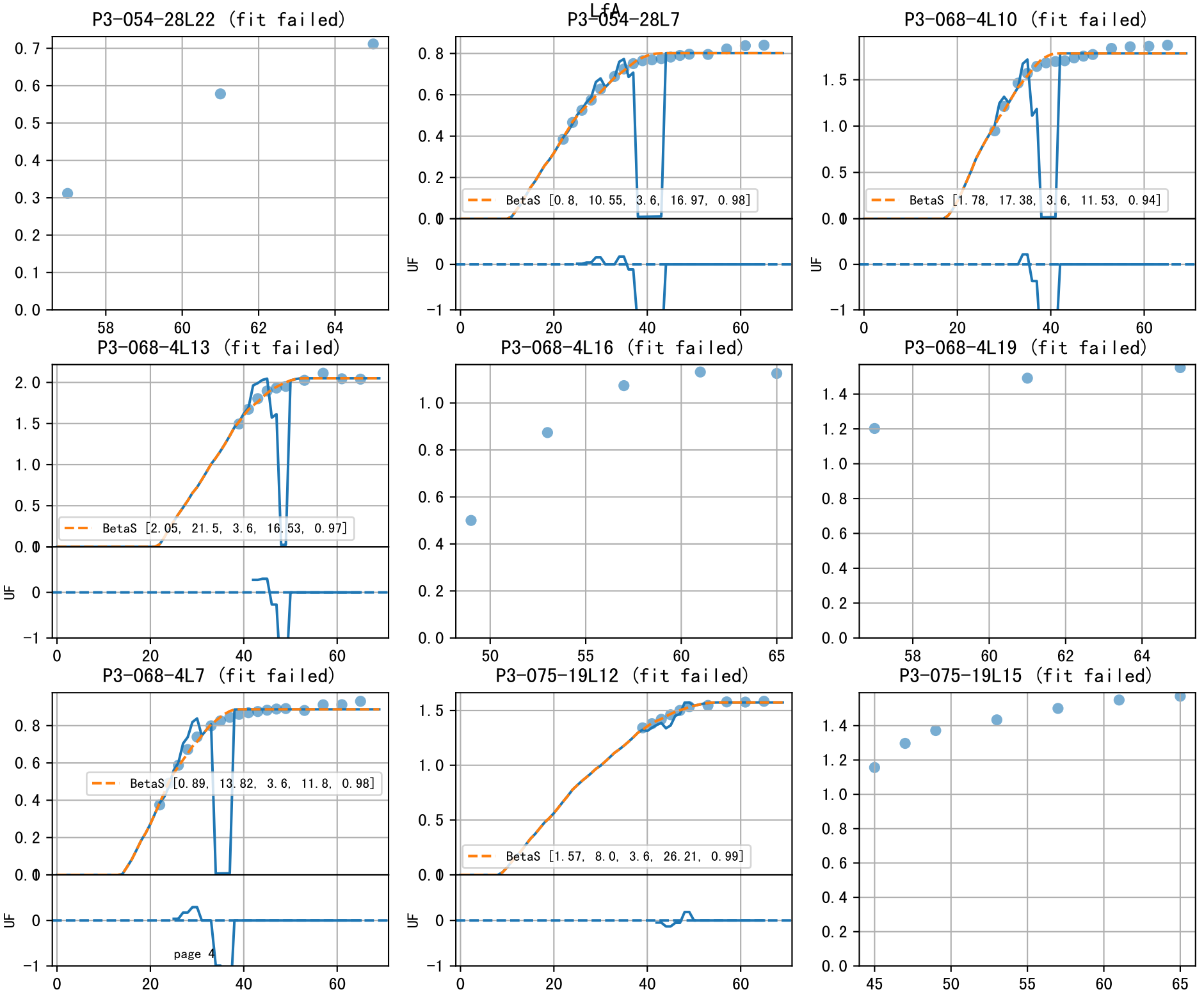
FrV

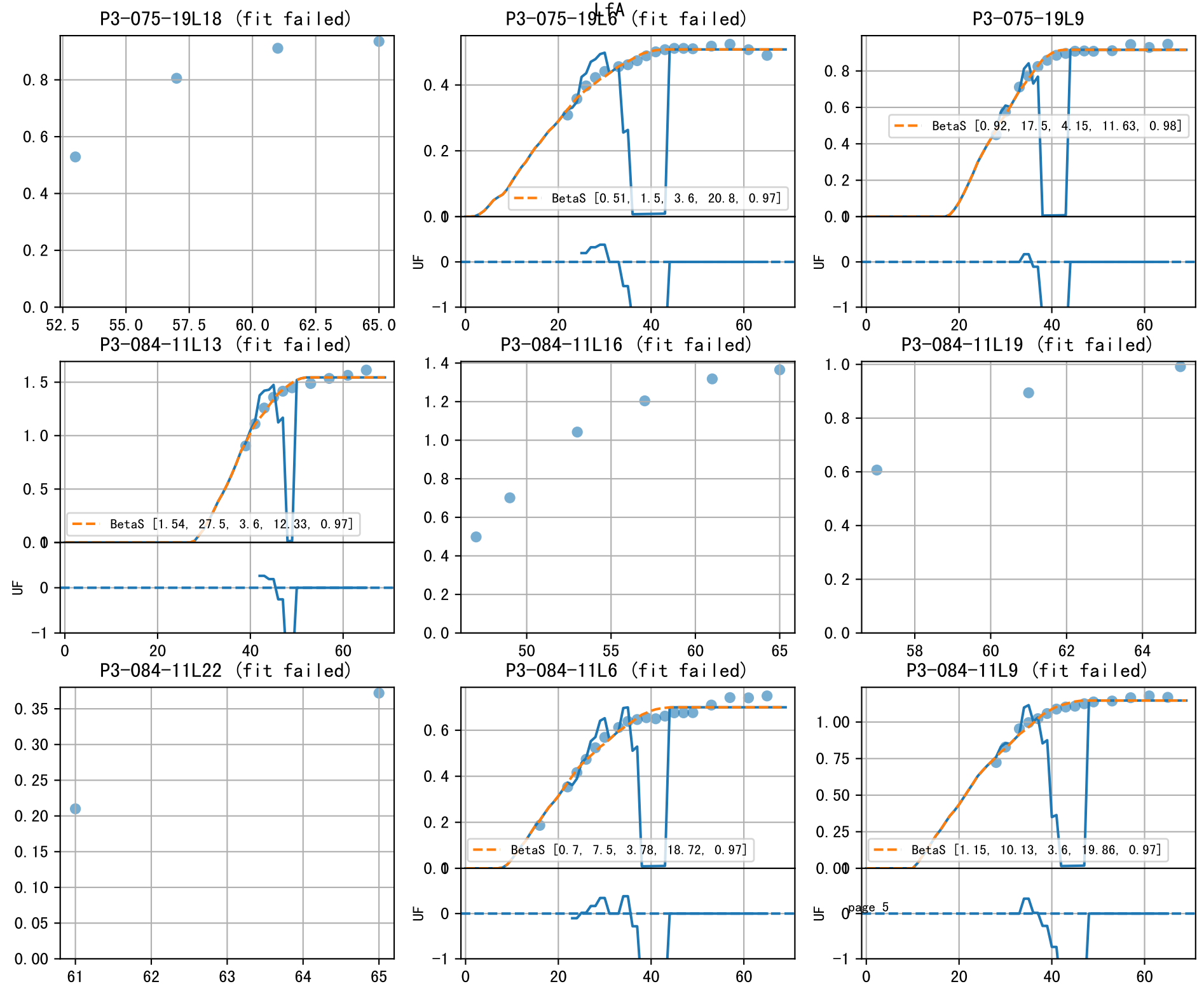

By Start Date
By Plant/Organ Age
P3
1.0
0.5
0.0
−0.5
−1.0
25
30
35
40
45
50
55
60
0
10
20
30
40
page 2

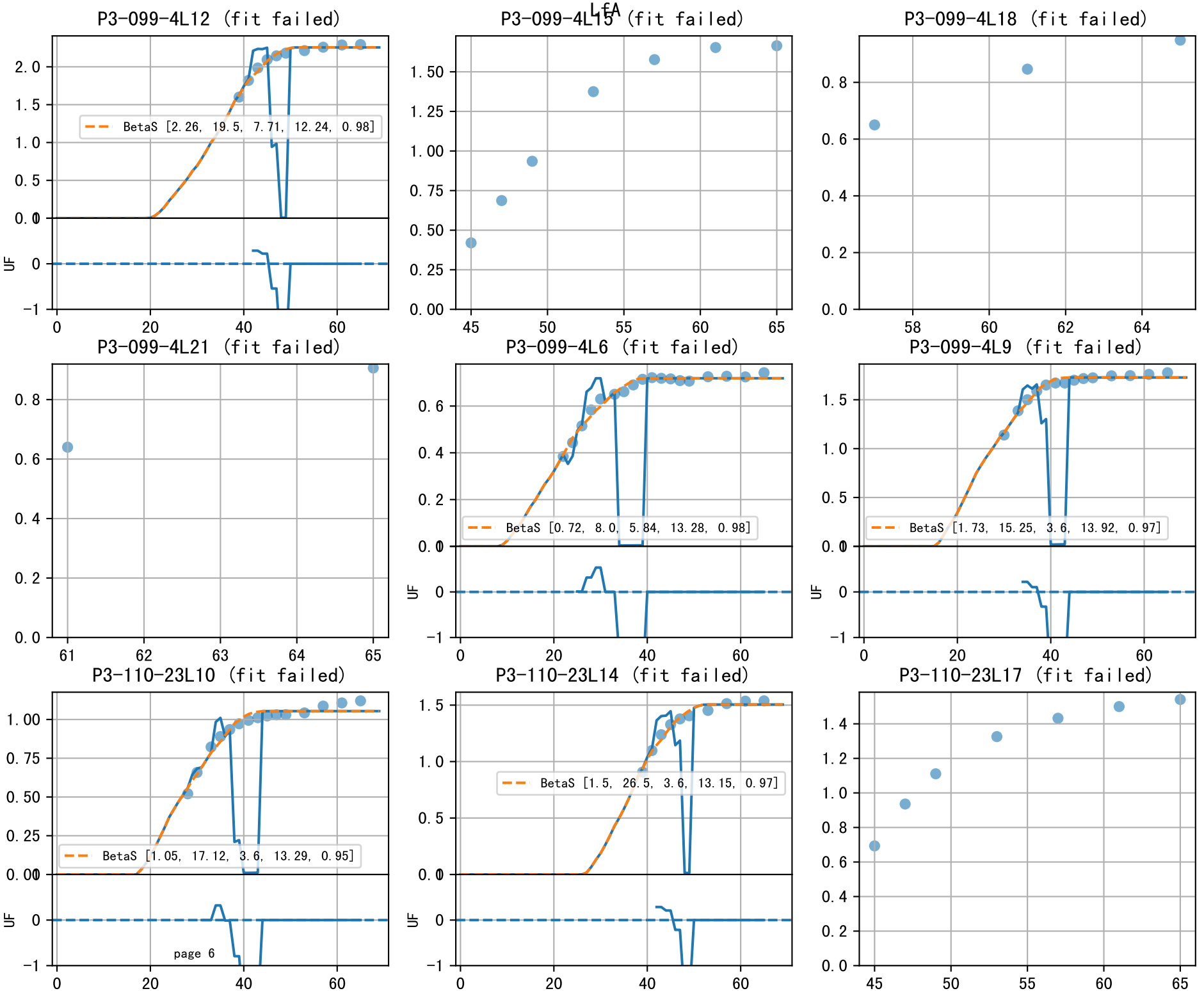

LfA
P3-009-13L10
BetaS [1.16, 17.88, 3.6, 10.8, 0.98]
P3-009-13L15 (fit failed)
BetaS [2.09, 30.11, 3.6, 6.83, 0.96]
P3-009-13L18 (fit failed)
P3-009-13L21 (fit failed)
P3-009-13L23 (fit failed)
P3-009-13L7
BetaS [0.65, 9.58, 3.6, 15.43, 0.96]
P3-021-19L10 (fit failed)
BetaS [1.41, 14.5, 3.8, 17.58, 0.96]
P3-021-19L15 (fit failed)
BetaS [1.58, 31.15, 3.6, 10.32, 0.99]
P3-021-19L18 (fit failed)
UF
page 1

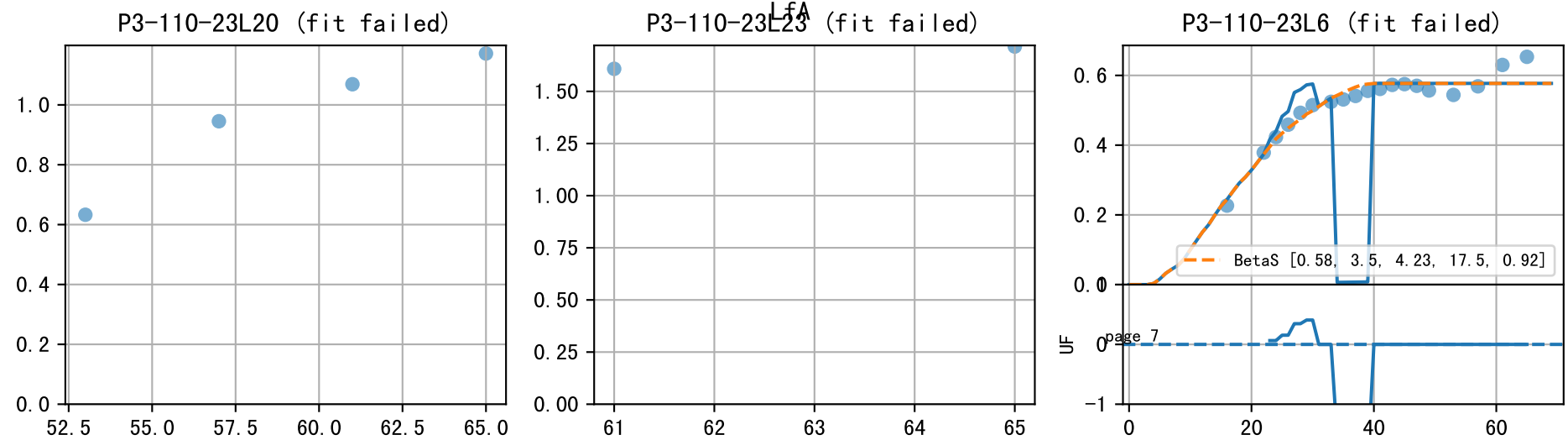

P3-021-19L21 (fit failed)
P3-021-19L24 (fit failed)
P3-021-19L6 (fit failed)
BetaS [0.77, 0.5, 7.8, 18.36, 0.98]
P3-034-5L12 (fit failed)
BetaS [2.46, 22.11, 3.6, 11.78, 0.96]
P3-034-5L15 (fit failed)
P3-034-5L19 (fit failed)
P3-034-5L22 (fit failed)
P3-034-5L6 (fit failed)
BetaS [0.86, 7.37, 3.6, 18.35, 0.97]
P3-034-5L9
BetaS [1.66, 15.46, 3.6, 12.67, 0.98]
UF

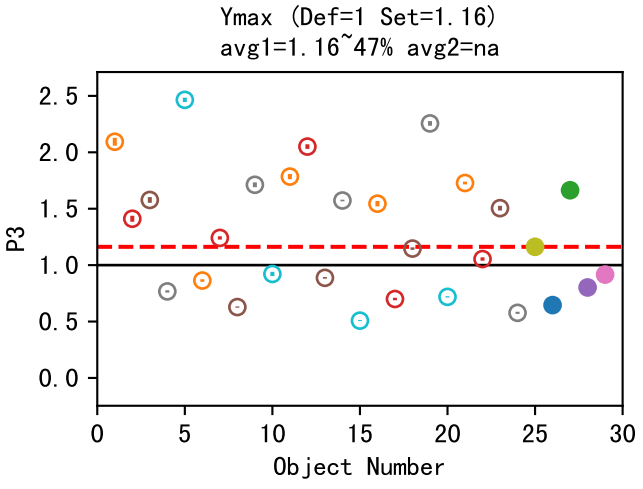

LfA
P3-045-17L12 (fit failed)
BetaS [1.24, 24.42, 3.6, 13.56, 0.98]
UF
P3-045-17L15 (fit failed)
P3-045-17L18 (fit failed)
P3-045-17L21 (fit failed)
P3-045-17L6 (fit failed)
BetaS [0.63, 9.92, 3.6, 17.82, 0.98]
P3-054-28L10 (fit failed)
BetaS [1.71, 15.98, 3.6, 14.56, 0.97]
P3-054-28L13 (fit failed)
BetaS [0.92, 27.64, 3.6, 11.93, 0.96]
P3-054-28L16 (fit failed)
P3-054-28L19 (fit failed)

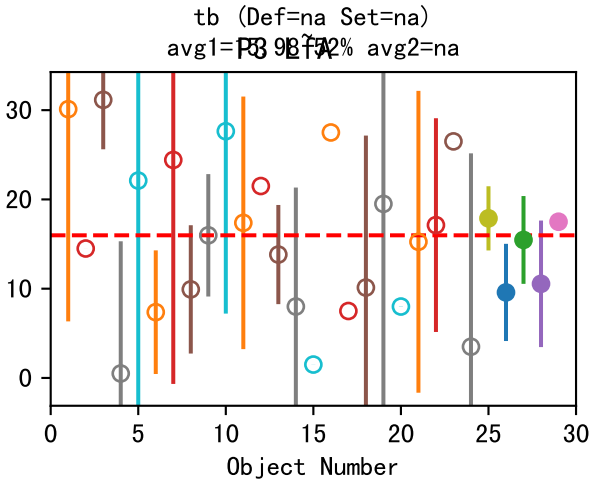

LfA
P3-054-28L22 (fit failed)
P3-054-28L7
BetaS [0.8, 10.55, 3.6, 16.97, 0.98]
P3-068-4L10 (fit failed)
BetaS [1.78, 17.38, 3.6, 11.53, 0.94]
P3-068-4L13 (fit failed)
BetaS [2.05, 21.5, 3.6, 16.53, 0.97]
P3-068-4L16 (fit failed)
P3-068-4L19 (fit failed)
P3-068-4L7 (fit failed)
BetaS [0.89, 13.82, 3.6, 11.8, 0.98]
P3-075-19L12 (fit failed)
BetaS [1.57, 8.0, 3.6, 26.21, 0.99]
P3-075-19L15 (fit failed)
UF

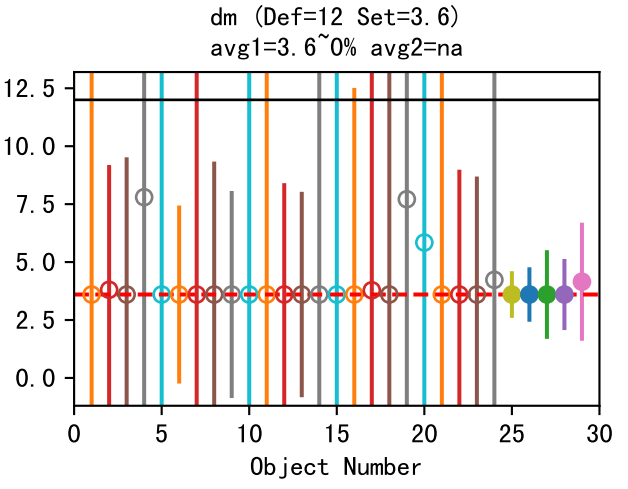

P3-075-19L18 (fit failed)
P3-075-19L6 (fit failed)
BetaS [0.51, 1.5, 3.6, 20.8, 0.97]
P3-075-19L9
BetaS [0.92, 17.5, 4.15, 11.63, 0.98]
P3-084-11L13 (fit failed)
BetaS [1.54, 27.5, 3.6, 12.33, 0.97]
P3-084-11L16 (fit failed)
P3-084-11L19 (fit failed)
P3-084-11L22 (fit failed)
P3-084-11L6 (fit failed)
BetaS [0.7, 7.5, 3.78, 18.72, 0.97]
P3-084-11L9 (fit failed)
BetaS [1.15, 10.13, 3.6, 19.86, 0.97]
UF

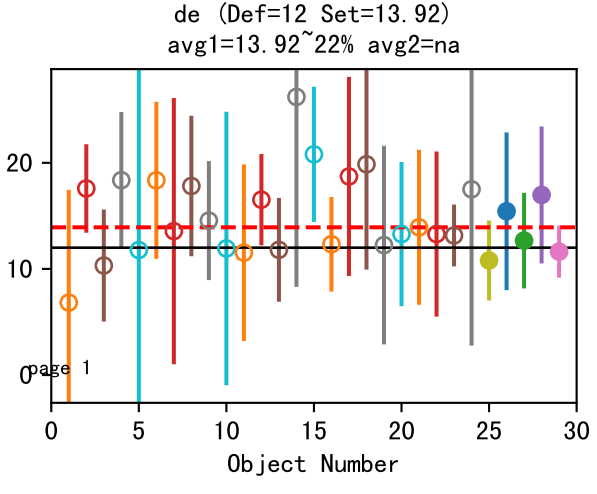

LEA
P3-099-4L12 (fit failed)
BetaS [2.26, 19.5, 7.71, 12.24, 0.98]
P3-099-4L15 (fit failed)
P3-099-4L18 (fit failed)
P3-099-4L21 (fit failed)
P3-099-4L6 (fit failed)
BetaS [0.72, 8.0, 5.84, 13.28, 0.98]
P3-099-4L9 (fit failed)
BetaS [1.73, 15.25, 3.6, 13.92, 0.97]
P3-110-23L10 (fit failed)
BetaS [1.05, 17.12, 3.6, 13.29, 0.95]
P3-110-23L14 (fit failed)
BetaS [1.5, 26.5, 3.6, 13.15, 0.97]
P3-110-23L17 (fit failed)
UF


LfA
P3-110-23L20 (fit failed)
P3-110-23L23 (fit failed)
P3-110-23L6 (fit failed)
BetaS [0.58, 3.5, 4.23, 17.5, 0.92]
UF
page 7

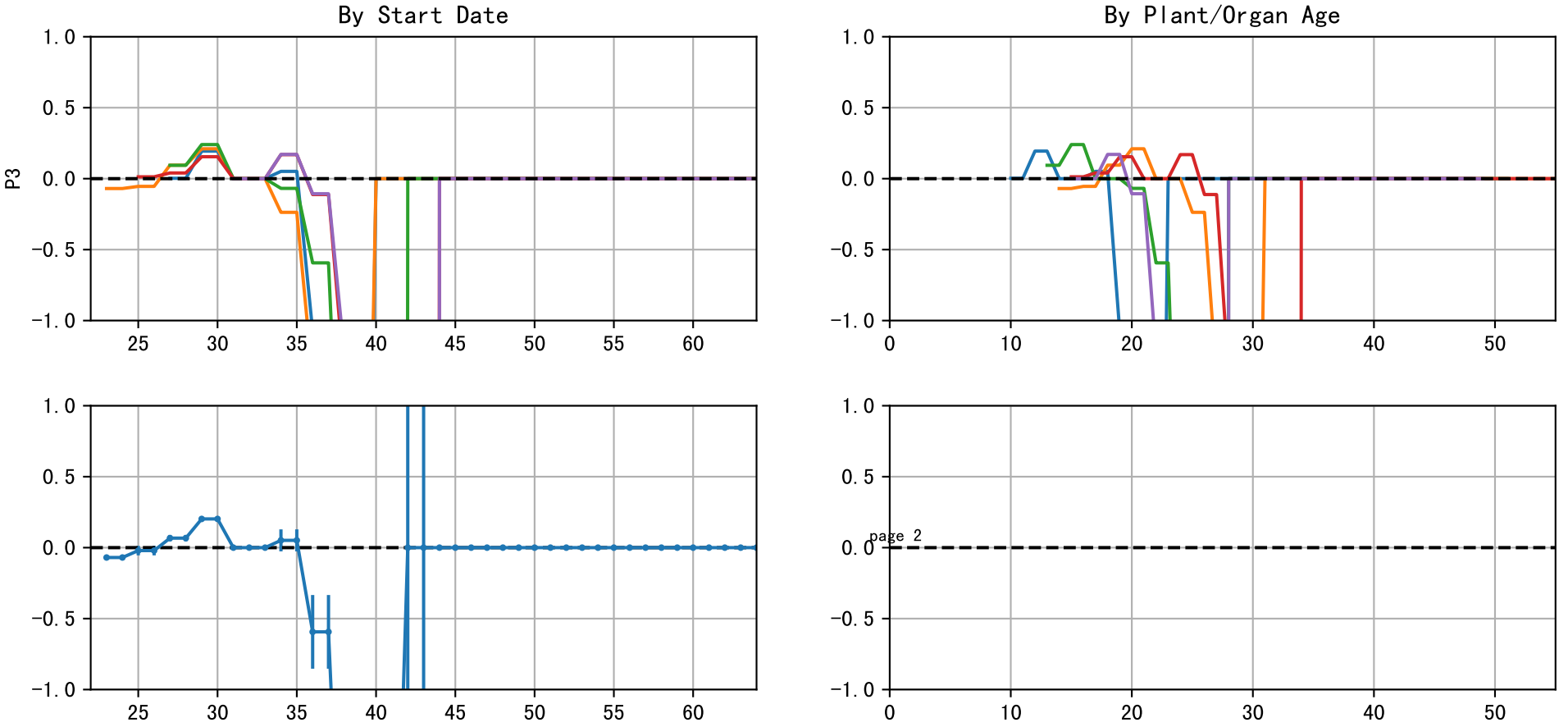

Ymax (Def=1 Set=1.16)
avg1=1.16~47% avg2=na
P3
Object Number

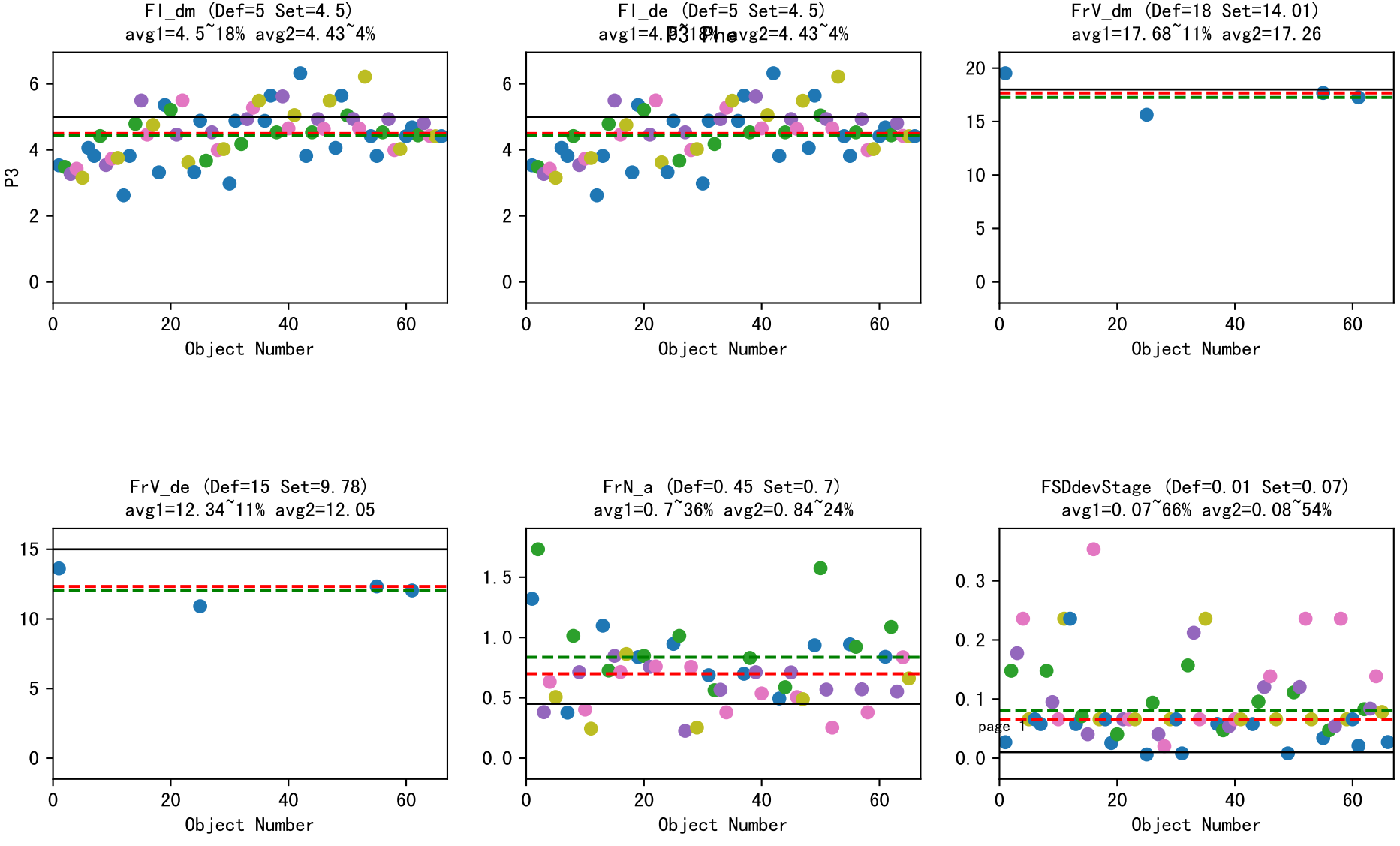

tb (Def=na Set=na)
avg1=13.92~72% avg2=na
Object Number

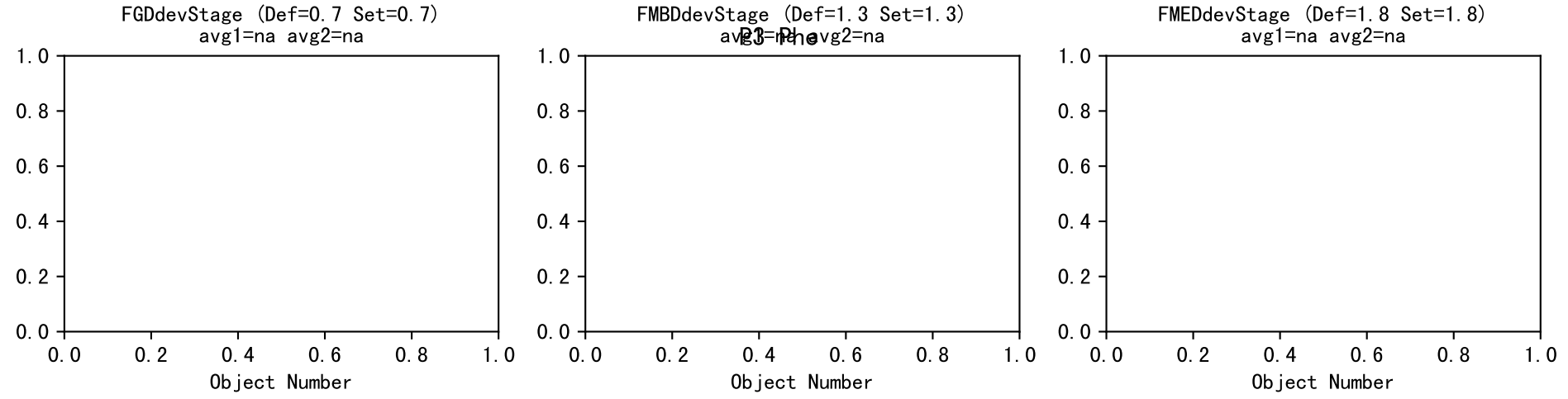

dm (Def=12 Set=3.6)
avg1=3.6~0% avg2=na
Object Number

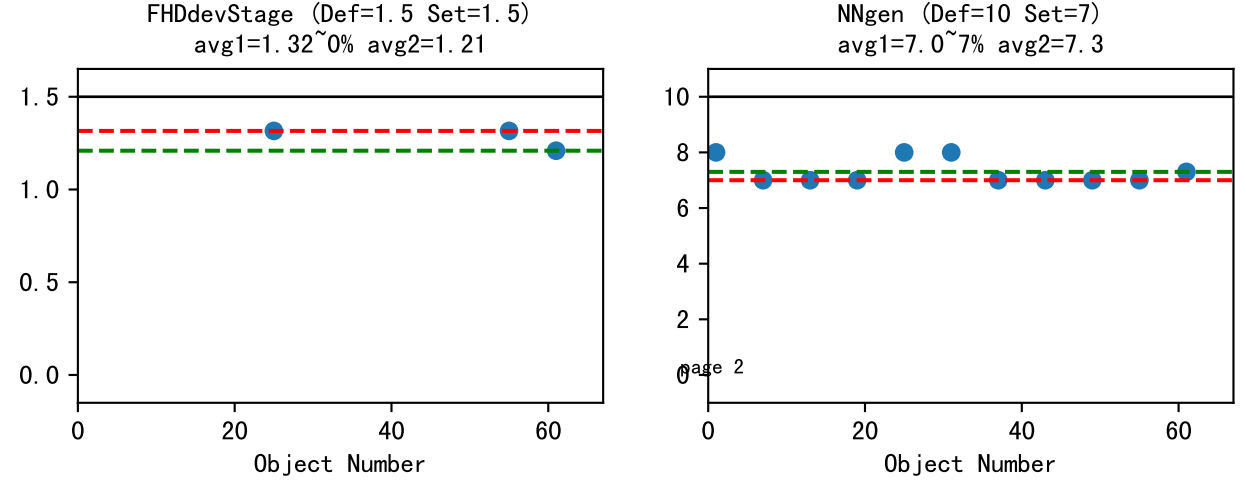

de (Def=12 Set=13.92)
avg1=13.92~22% avg2=na
Object Number

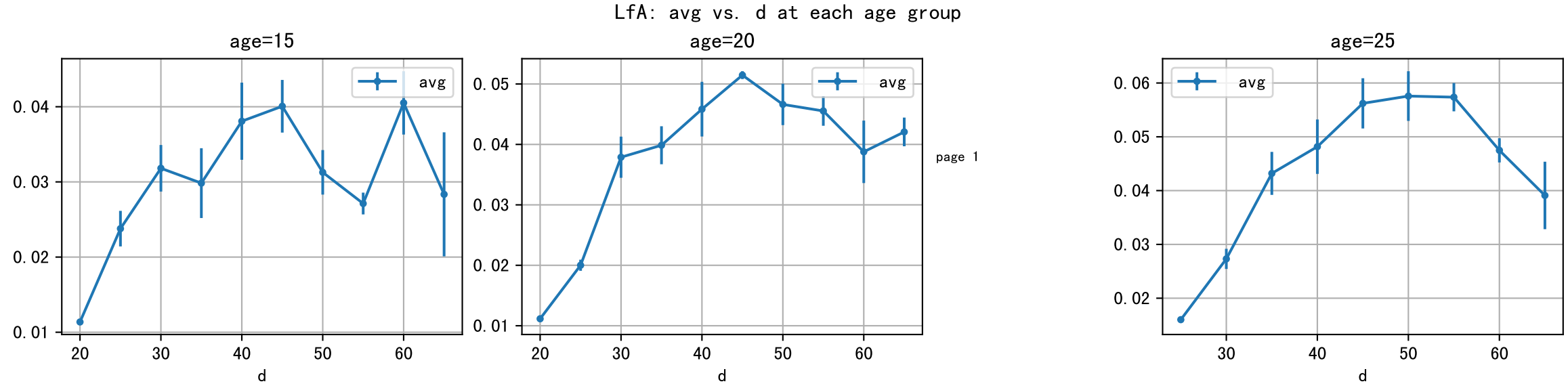
LfA


By Start Date
By Plant/Organ Age
P3
1.0
0.5
0.0
−0.5
−1.0
25
30
35
40
45
50
55
60
0
10
20
30
40
50
page 2

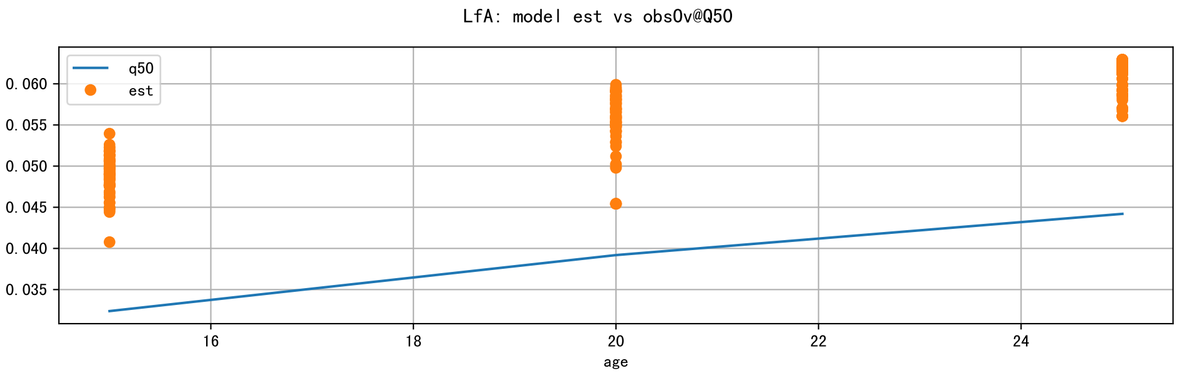

Fl_dm (Def=5 Set=4.5)
avg1=4.5~18% avg2=4.43~4%
Fl_de (Def=5 Set=4.5)
avg1=4.5~18% avg2=4.43~4%
FrV_dm (Def=18 Set=14.01)
avg1=17.68~11% avg2=17.26
FrV_de (Def=15 Set=9.78)
avg1=12.34~11% avg2=12.05
FrN_a (Def=0.45 Set=0.7)
avg1=0.7~36% avg2=0.84~24%
FSDdevStage (Def=0.01 Set=0.07)
avg1=0.07~66% avg2=0.08~54%
P3
Object Number
page 1


FGDdevStage (Def=0.7 Set=0.7)
avg1=na avg2=na
FMBDdevStage (Def=1.3 Set=1.3)
avg1=na avg2=na
FMEDdevStage (Def=1.8 Set=1.8)
avg1=na avg2=na
Object Number
Object Number
Object Number

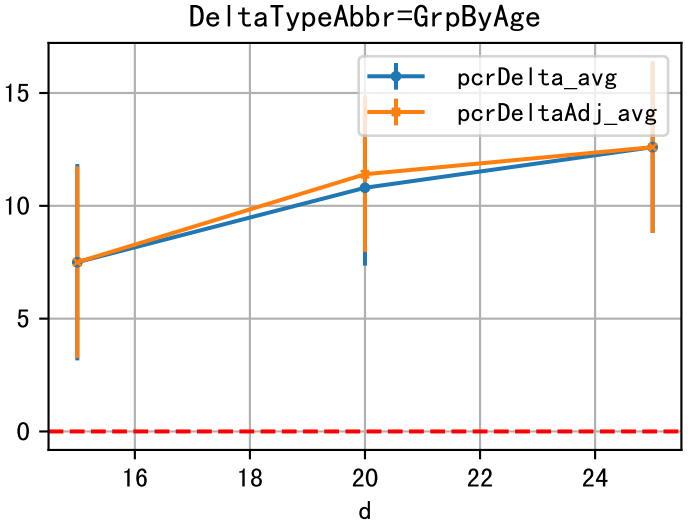

FHDdevStage (Def=1.5 Set=1.5)
avg1=1.32~0% avg2=1.21
NNgen (Def=10 Set=7)
avg1=7.0~7%
Object Number
Object Number

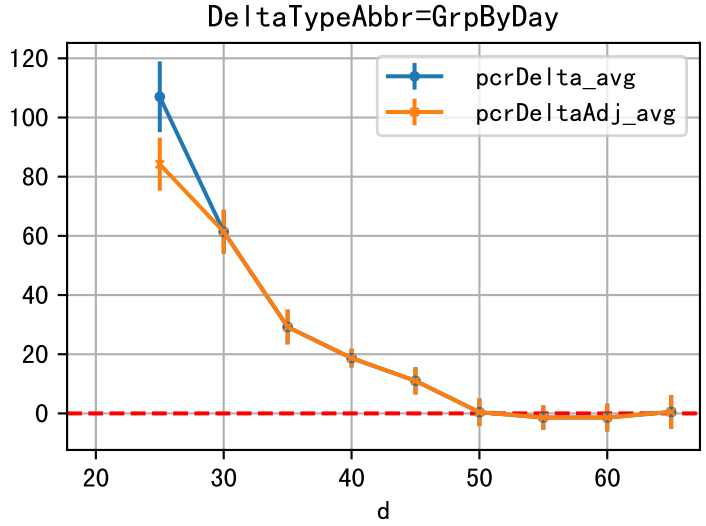

LfA: avg vs. d at each age group
age=15
age=20
age=25
avg
d
0.01
0.02
0.03
0.04
0.05
0.06
20
30
40
50
60

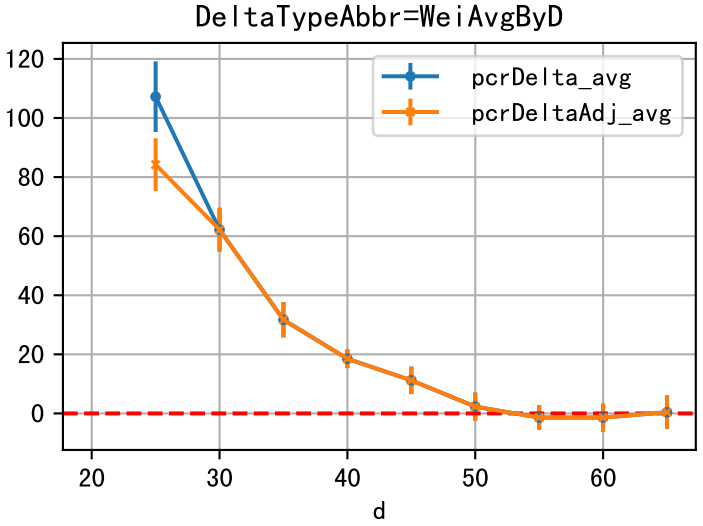
page 2


LfA: model est vs obsOv@Q50
q50
est
0.060
0.055
0.050
0.045
0.040
0.035
16
18
20
22
24
age

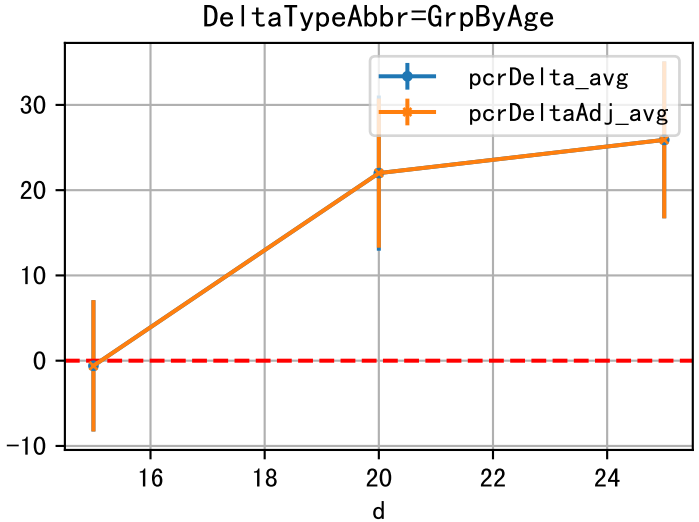
P3 LfA: D_5d_LfA

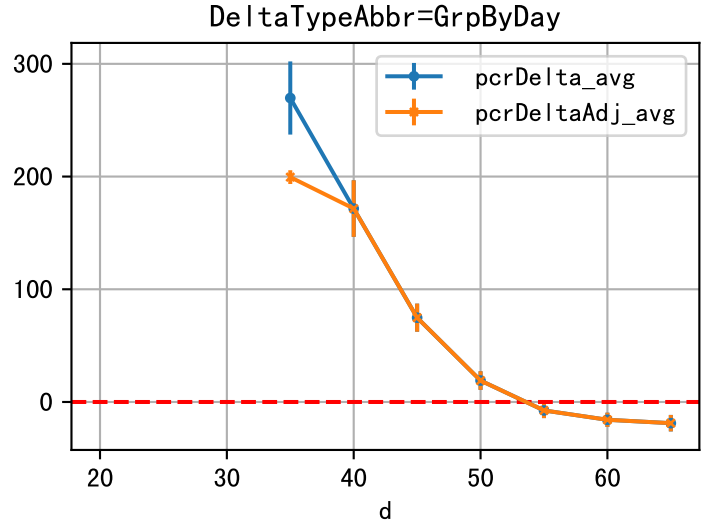


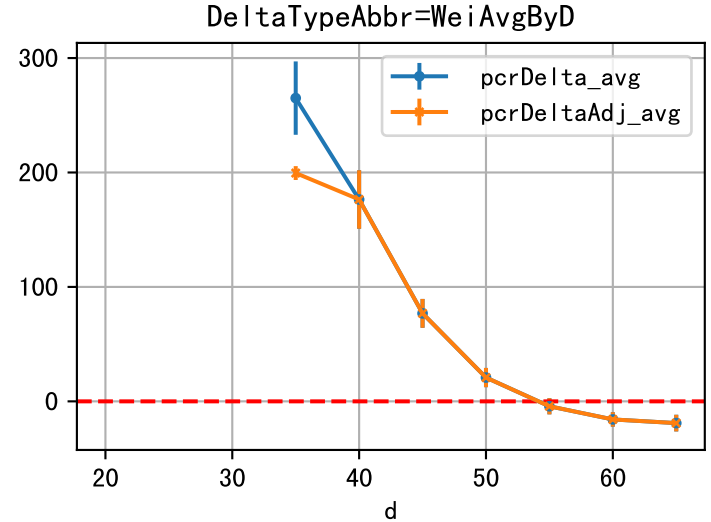




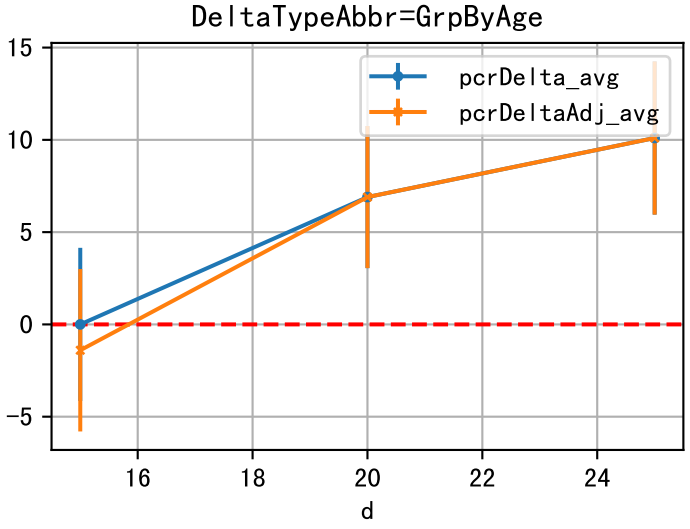
P3 LfA: D_15d_LfA

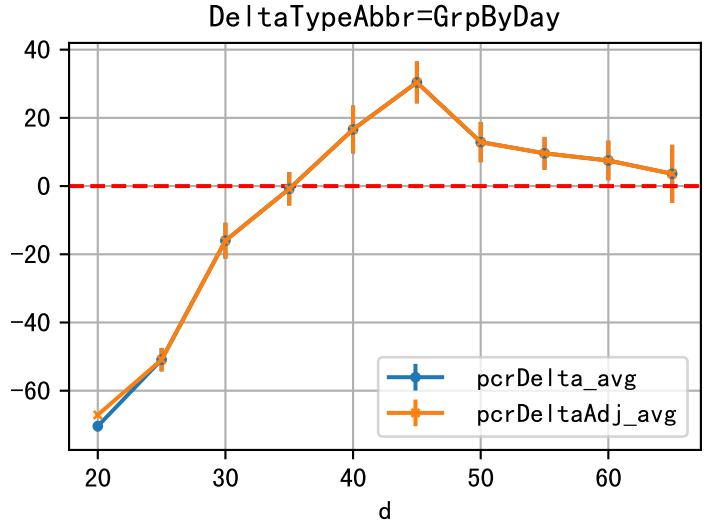


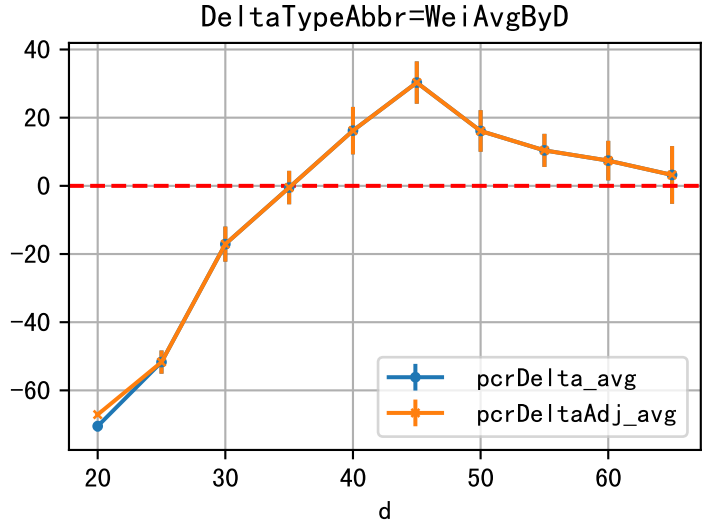




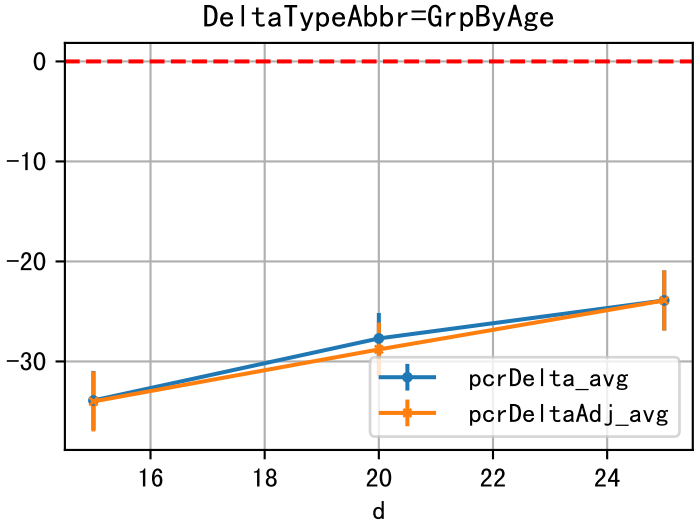
P3 LfA: D_Q50_LfA

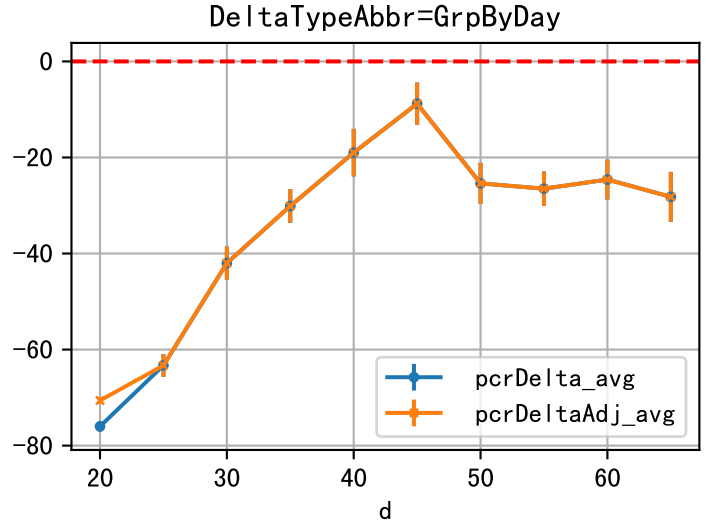


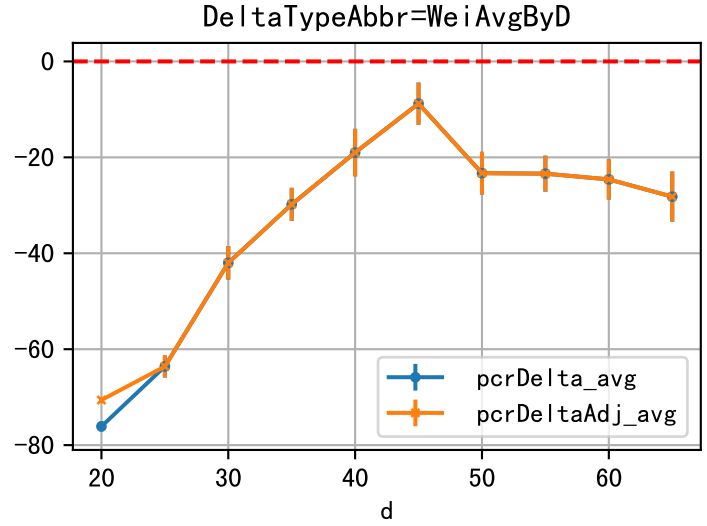


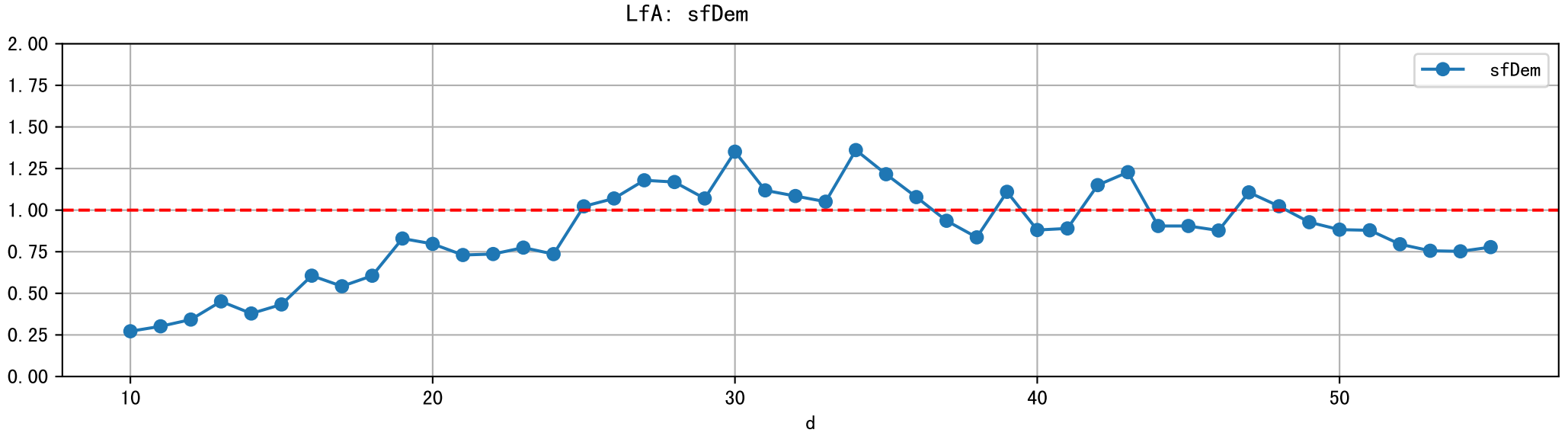


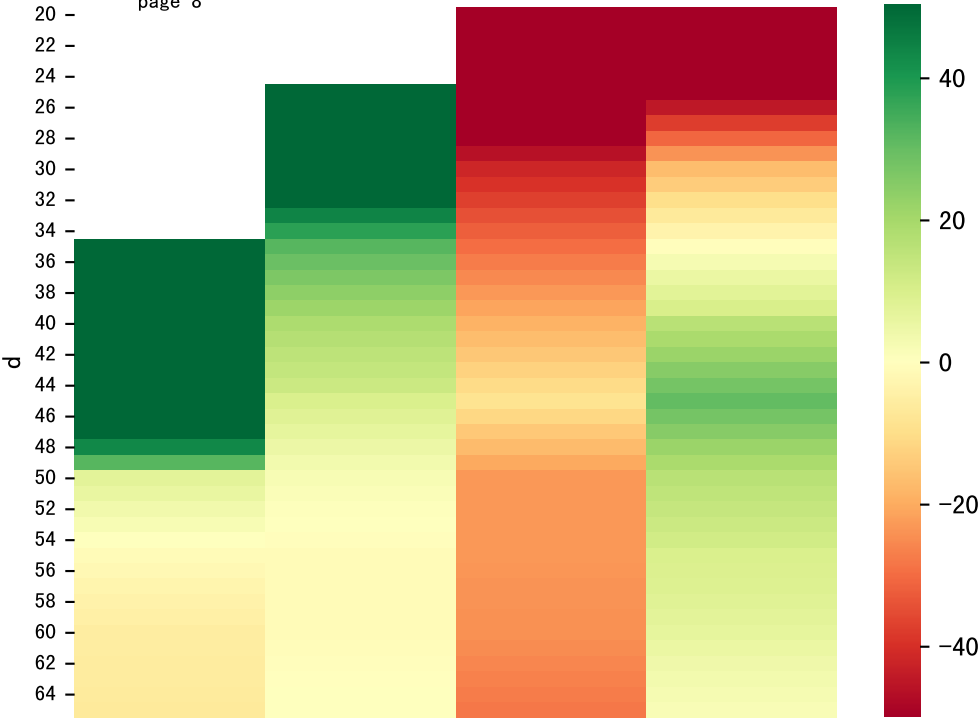
P3 LfA: D_Est_LfA



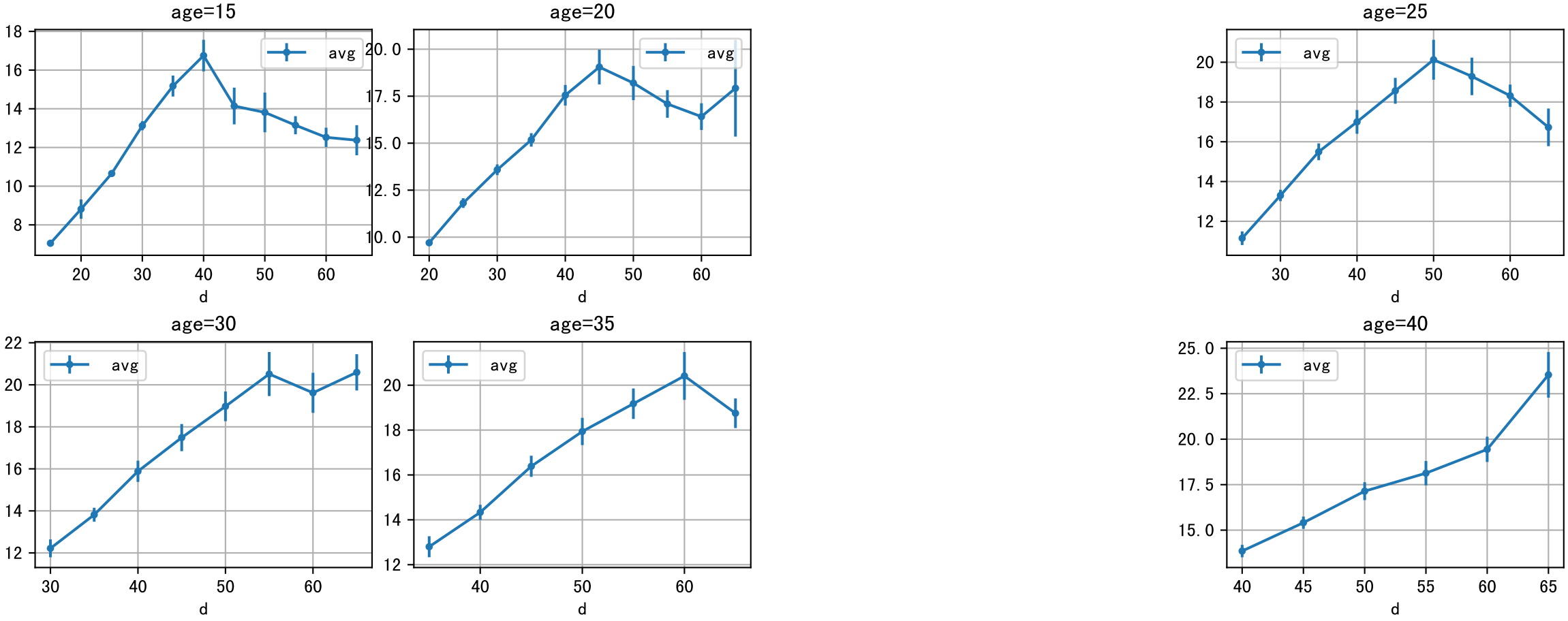


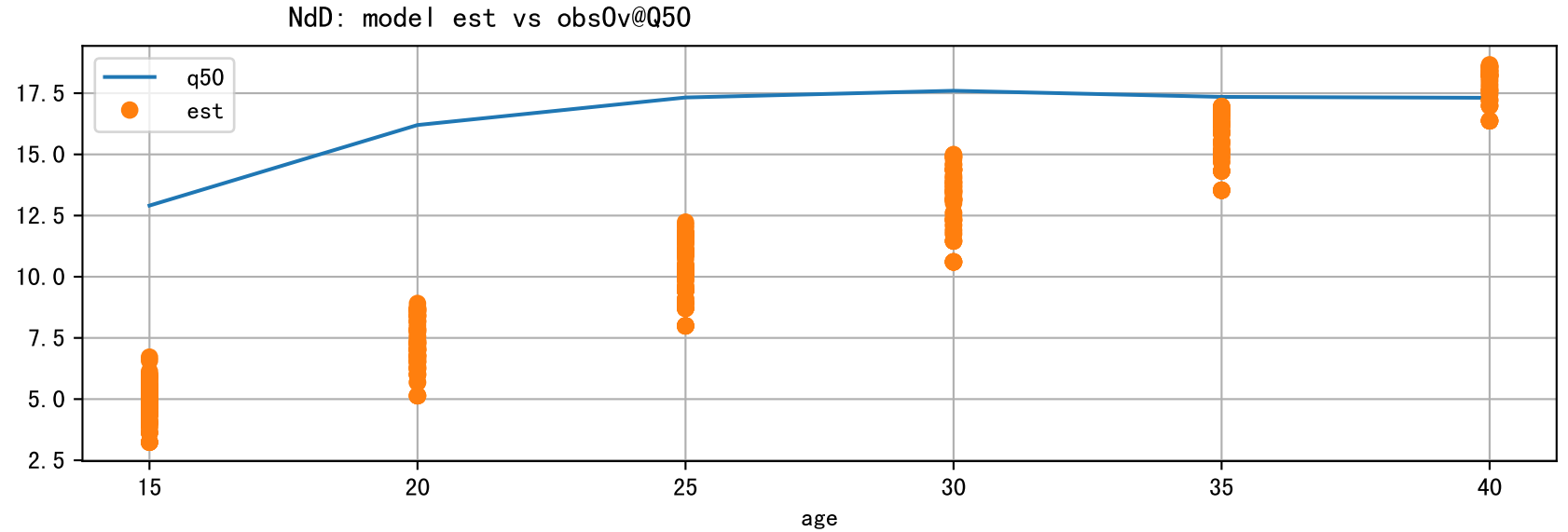



LfA: sfDem
sfDem
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
10
20
30
40
50
d

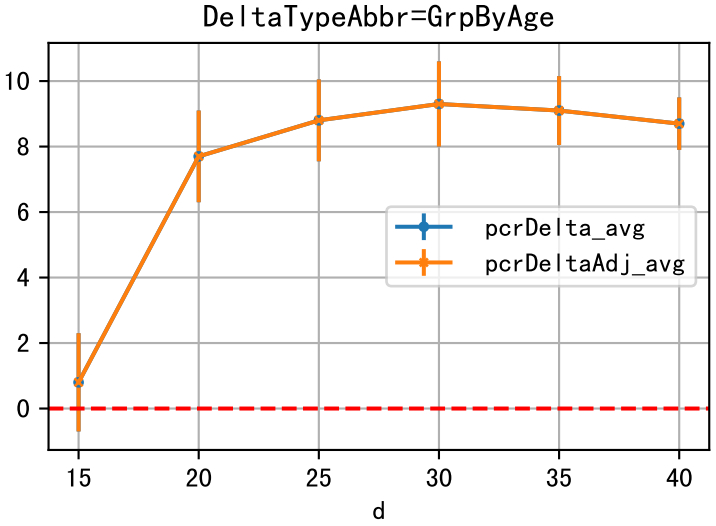

d
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
40
20
0
−20
−40

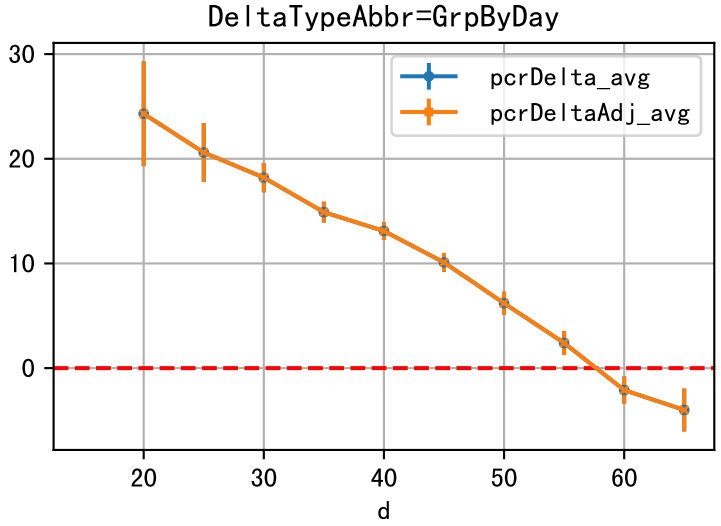
NdD: avg vs. d at each age group

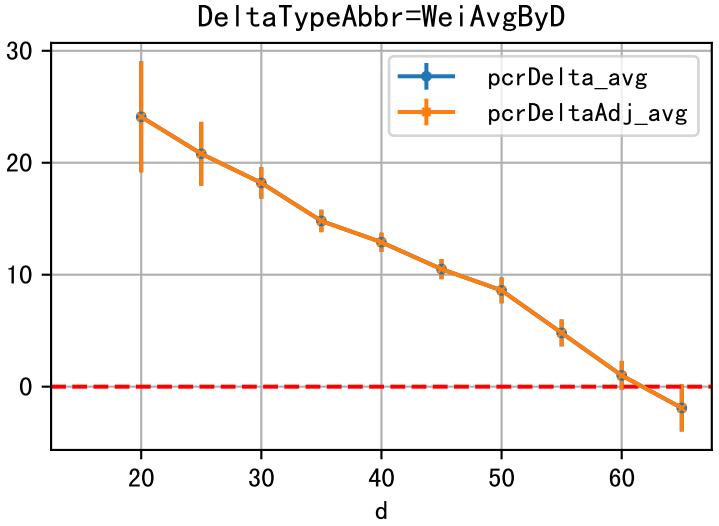



NdD: model est vs obsOv@Q50
q50
est
17.5
15.0
12.5
10.0
7.5
5.0
2.5
15
20
25
30
35
40
age

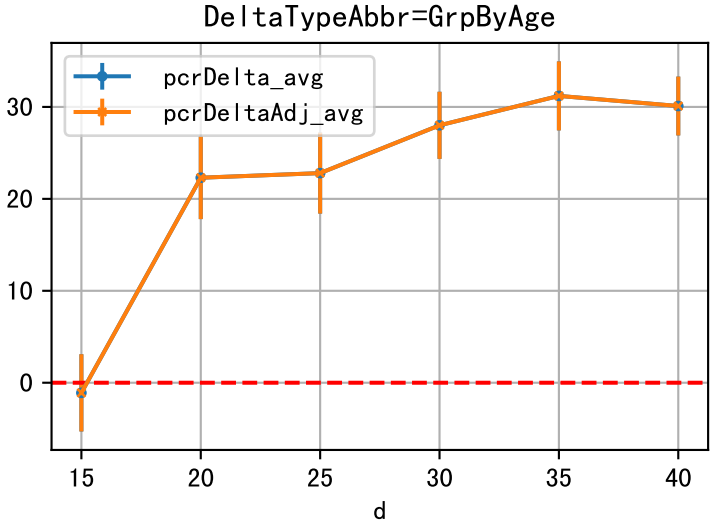
P3 NdD: D_5d_NdD

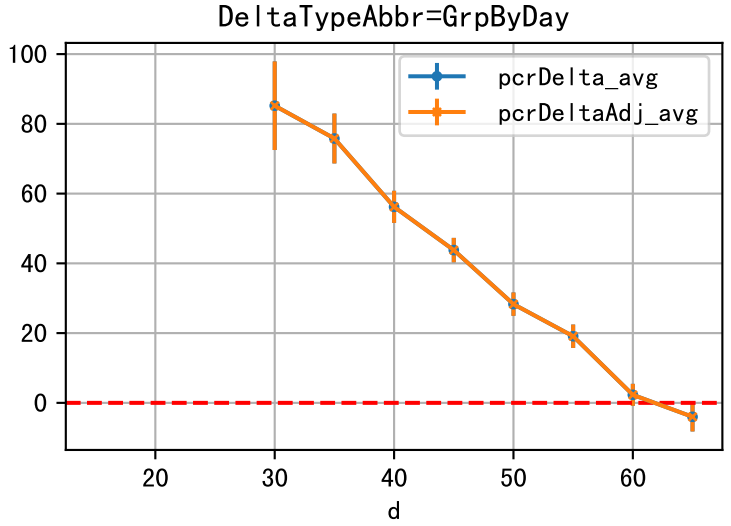


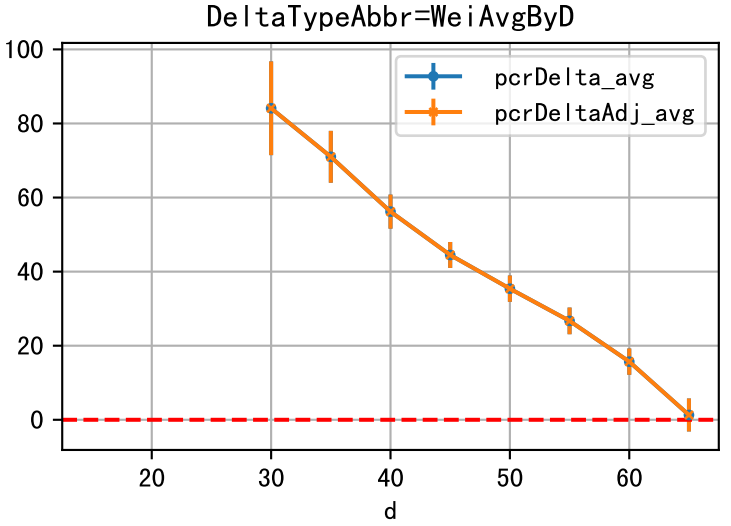




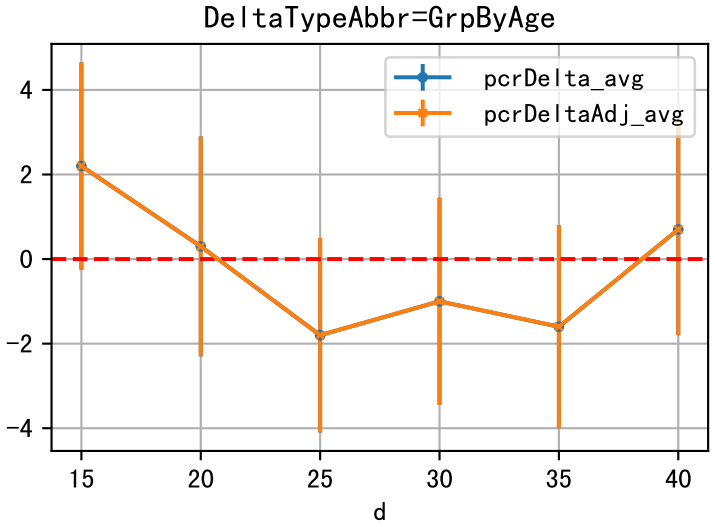
P3 NdD: D_15d_NdD

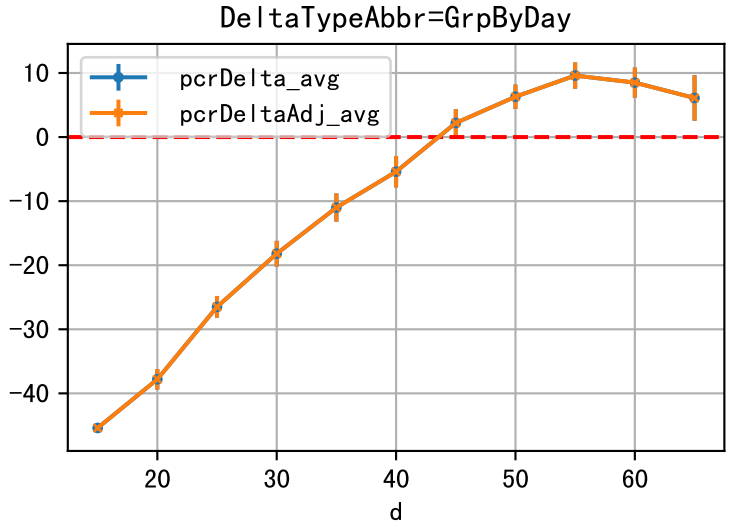


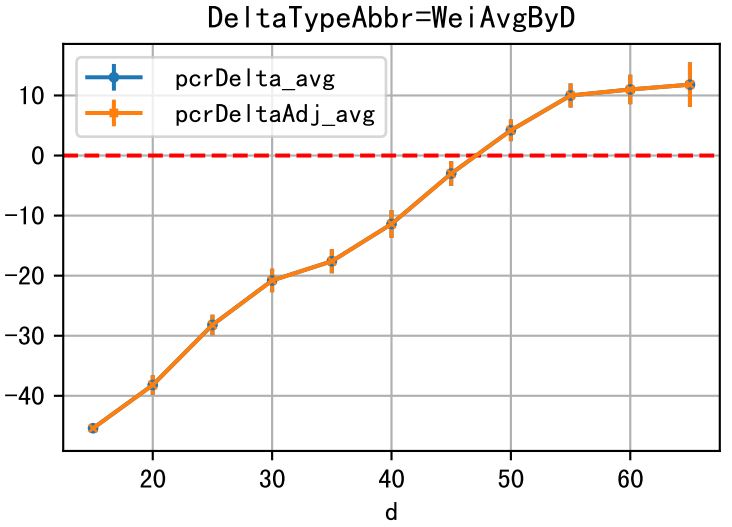


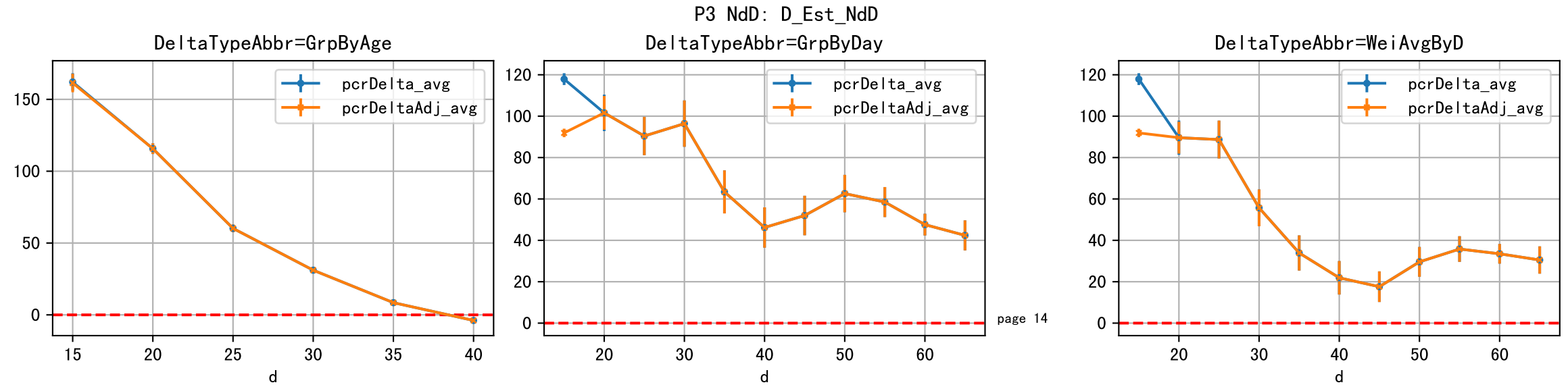


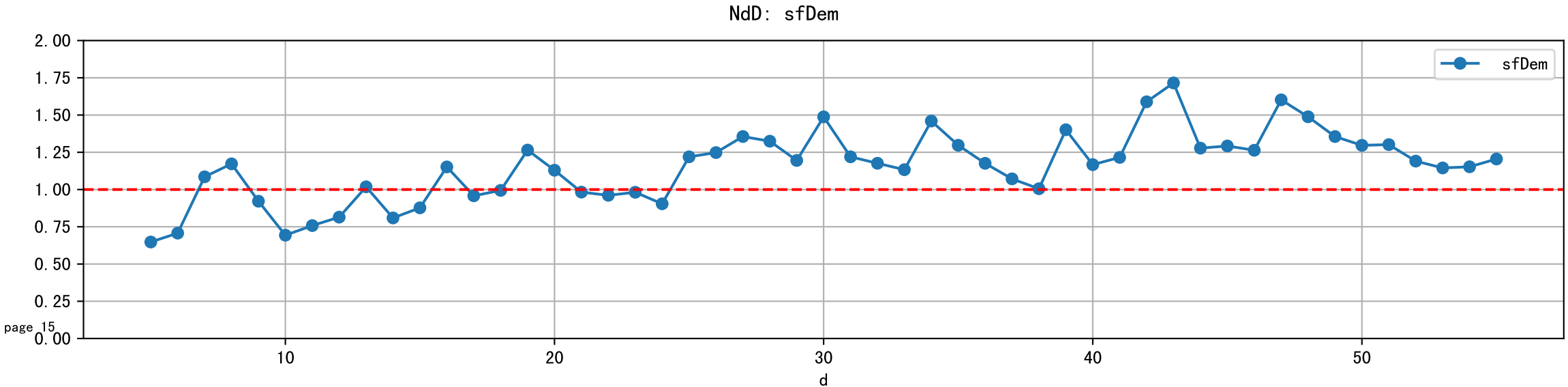
P3 NdD: D_Q50_NdD

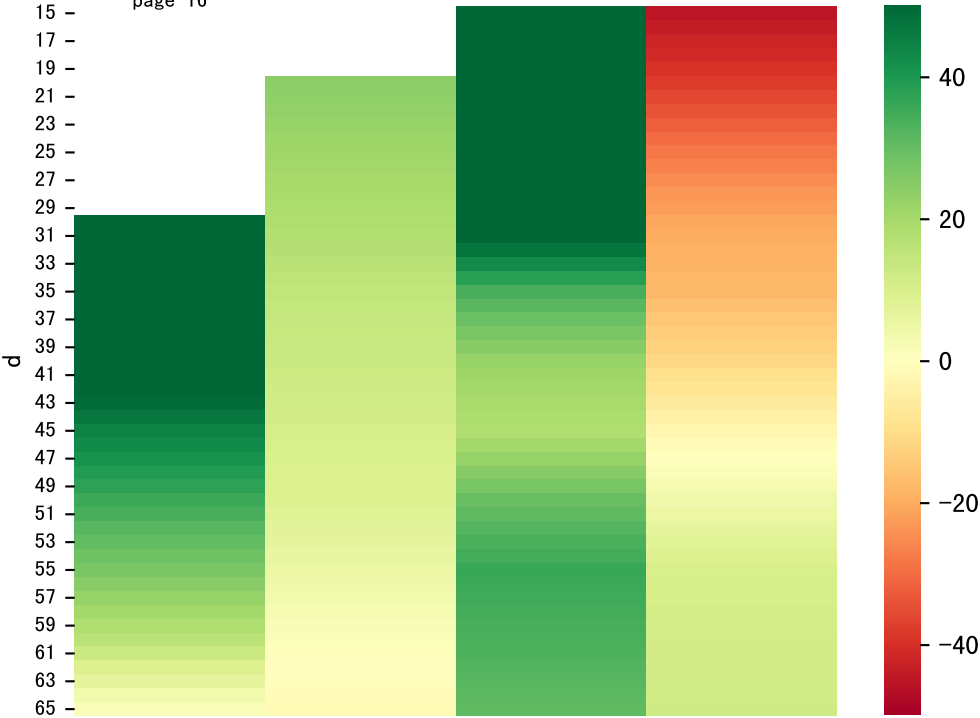


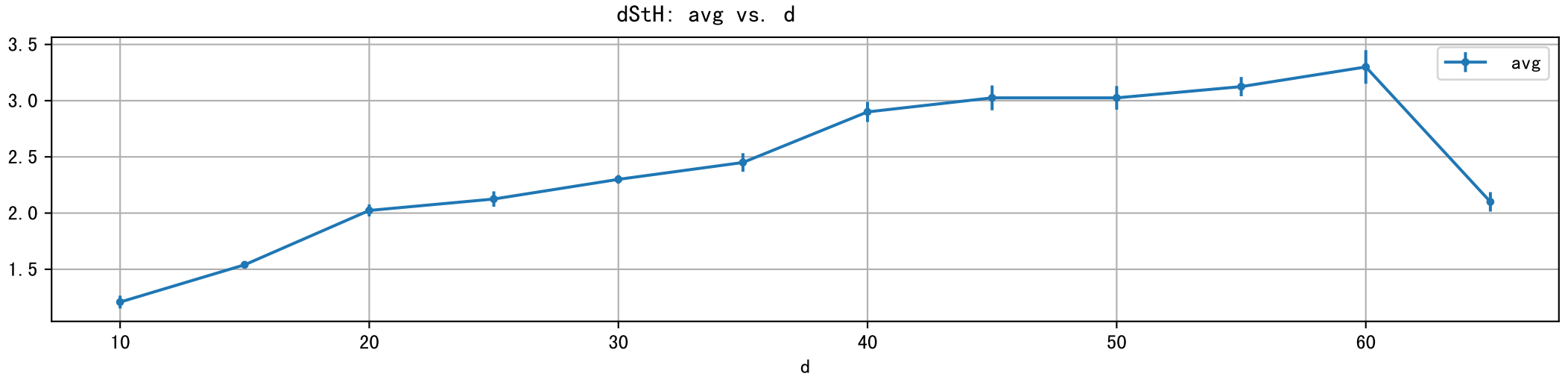


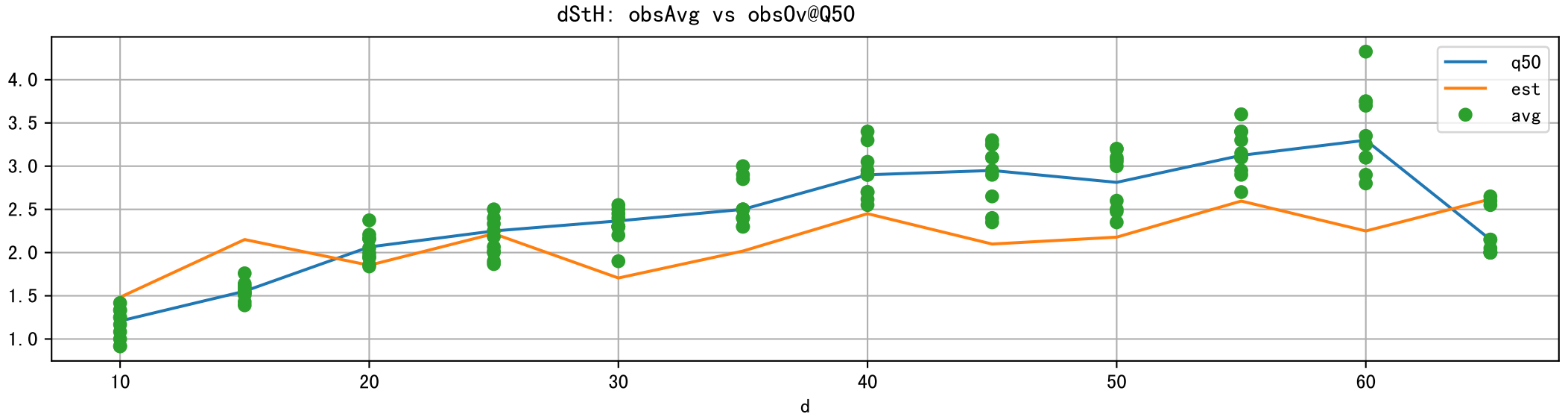


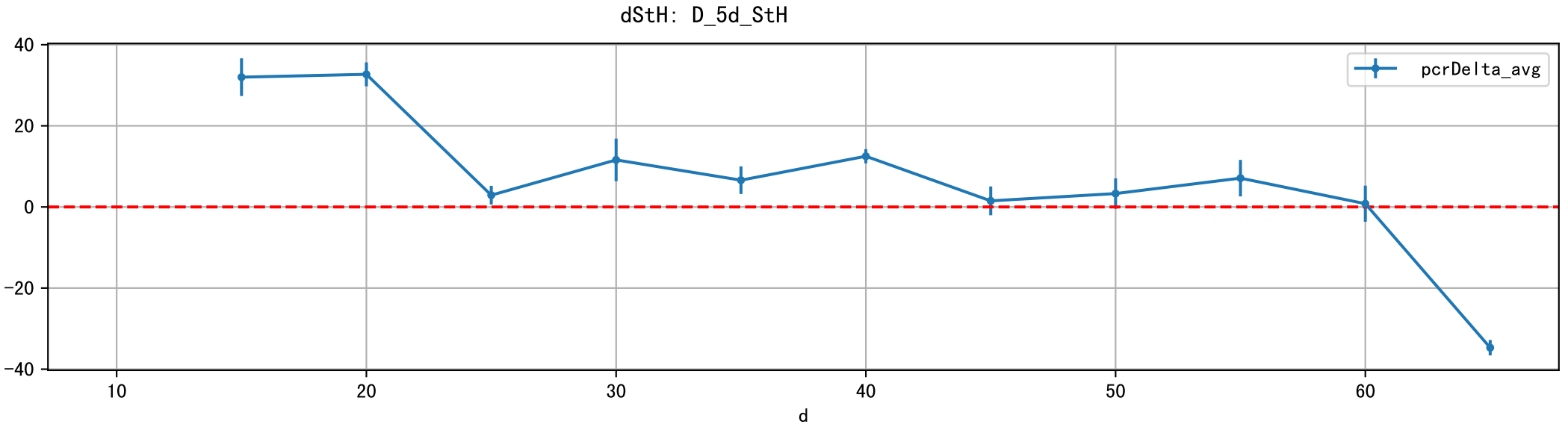

P3 NdD: D_Est_NdD
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

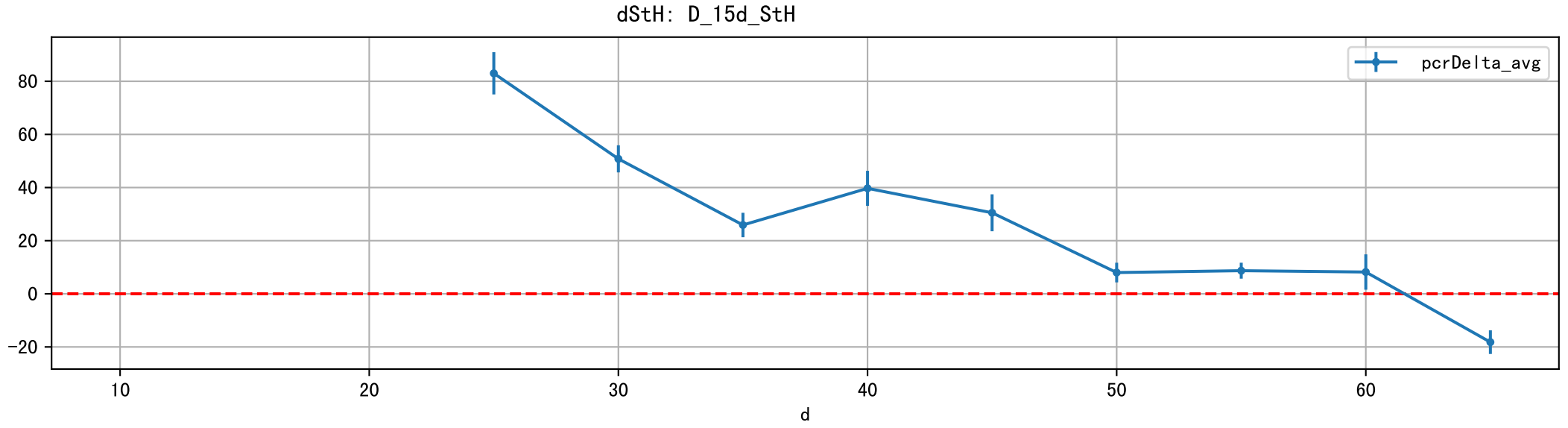

NdD: sfDem
sfDem
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
10
20
30
40
50
d

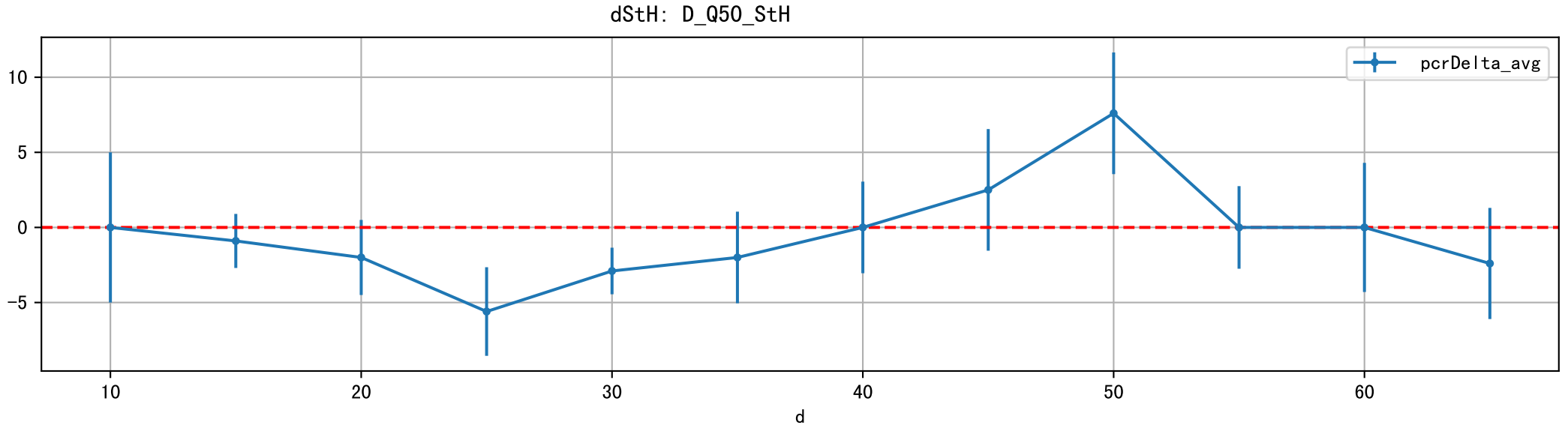

d
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
51
53
55
57
59
61
63
65
40
20
0
−20
−40

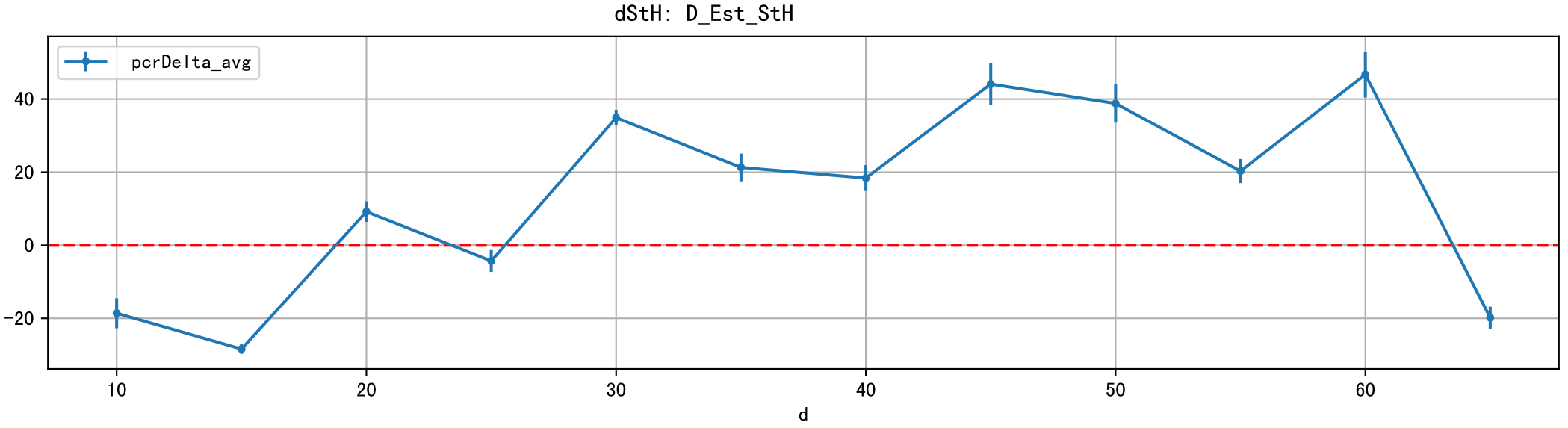

dStH: avg vs. d
3.5
3.0
2.5
2.0
1.5
10
20
30
40
50
60
d
avg

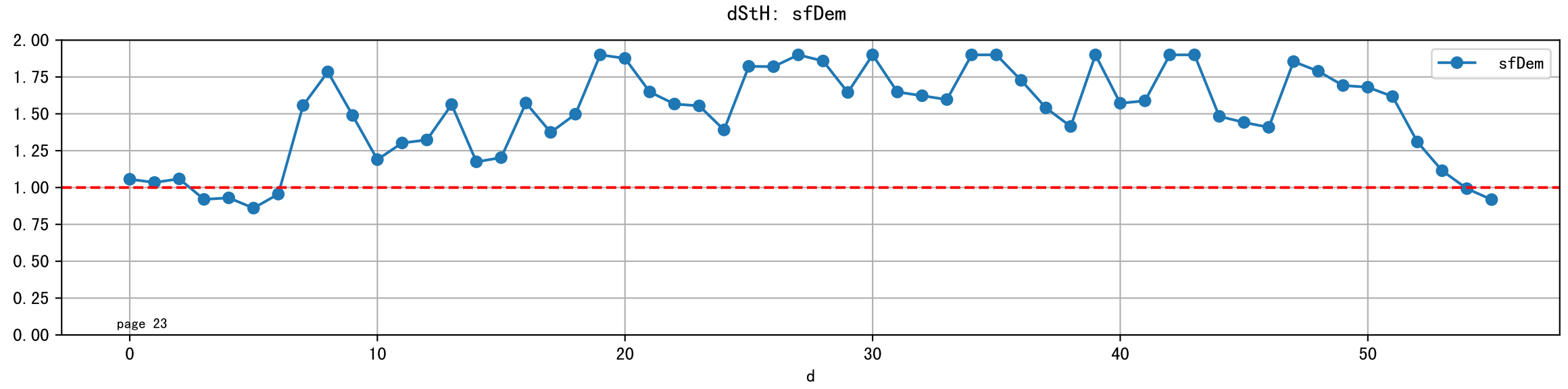

dStH: obsAvg vs obsOv@Q50
4.0
3.5
3.0
2.5
2.0
1.5
1.0
10
20
30
40
50
60
d
q50
est
avg

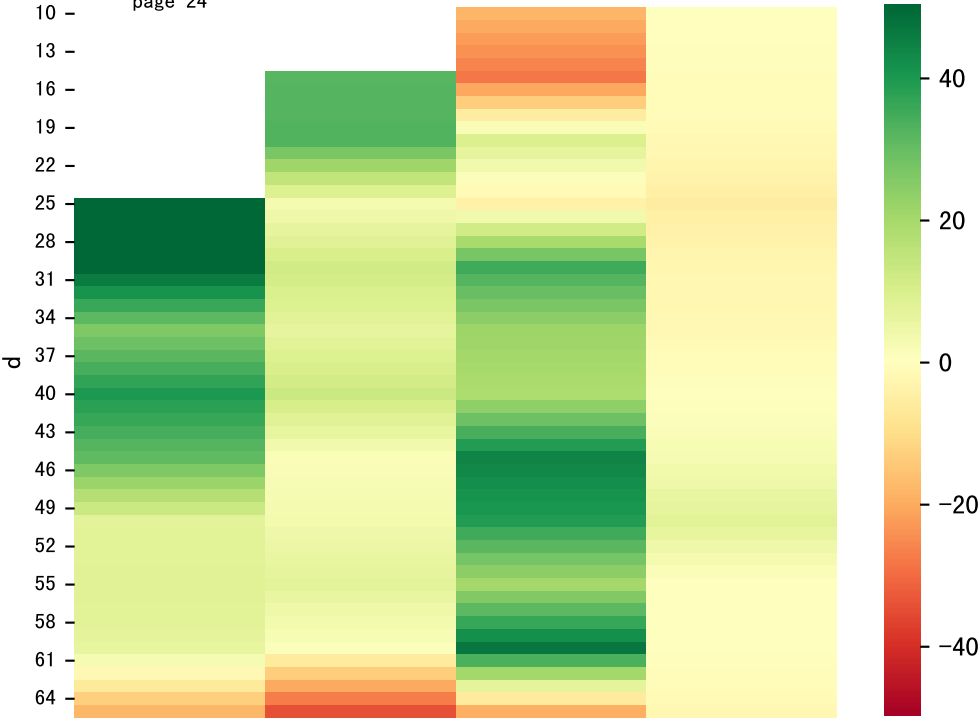

dStH: D_5d_StH
pcrDelta_avg
40
20
0
−20
−40
10
20
30
40
50
60
d

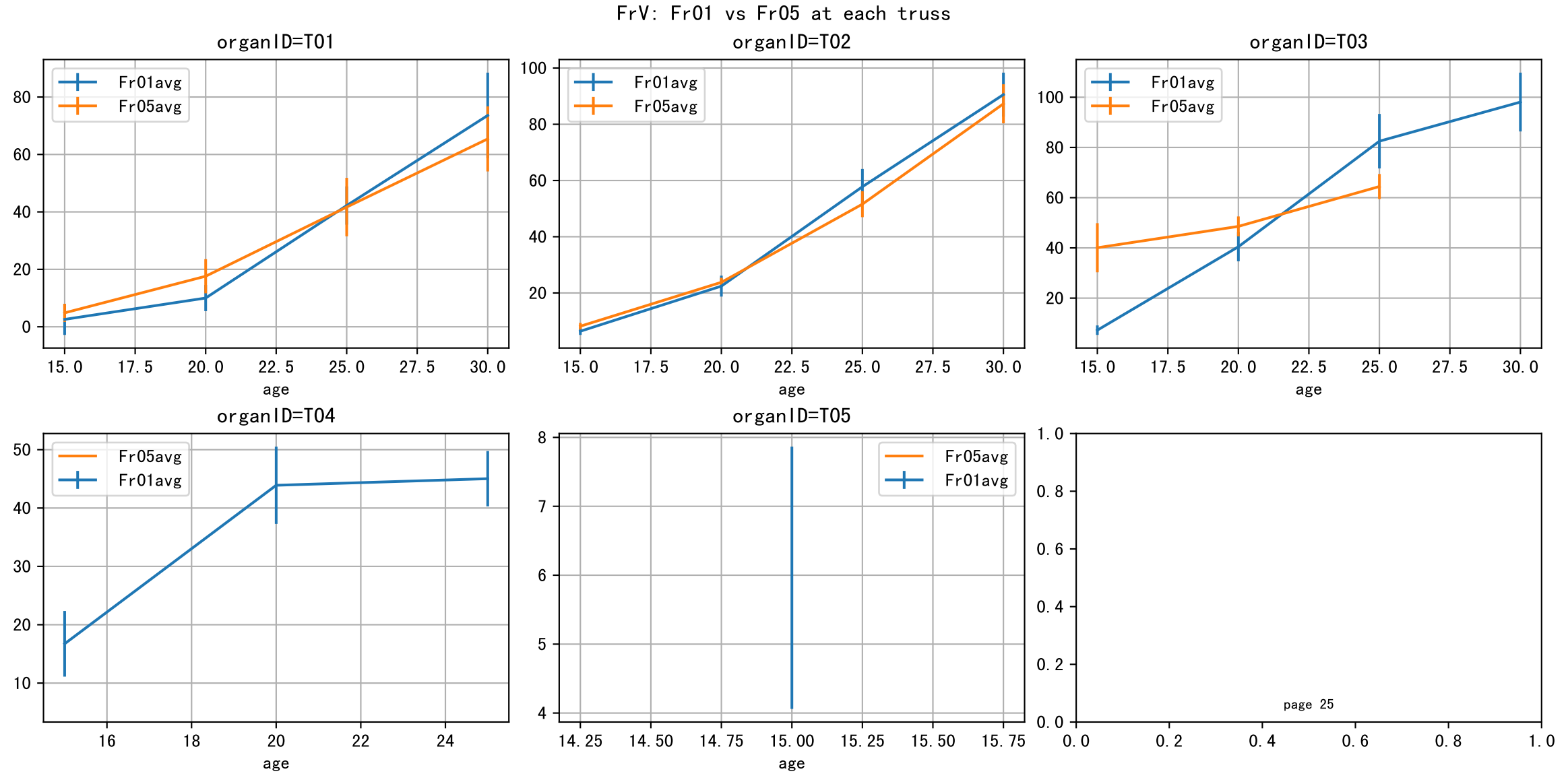

dStH: D_15d_StH
pcrDelta_avg
80
60
40
20
0
−20
10
20
30
40
50
60
d

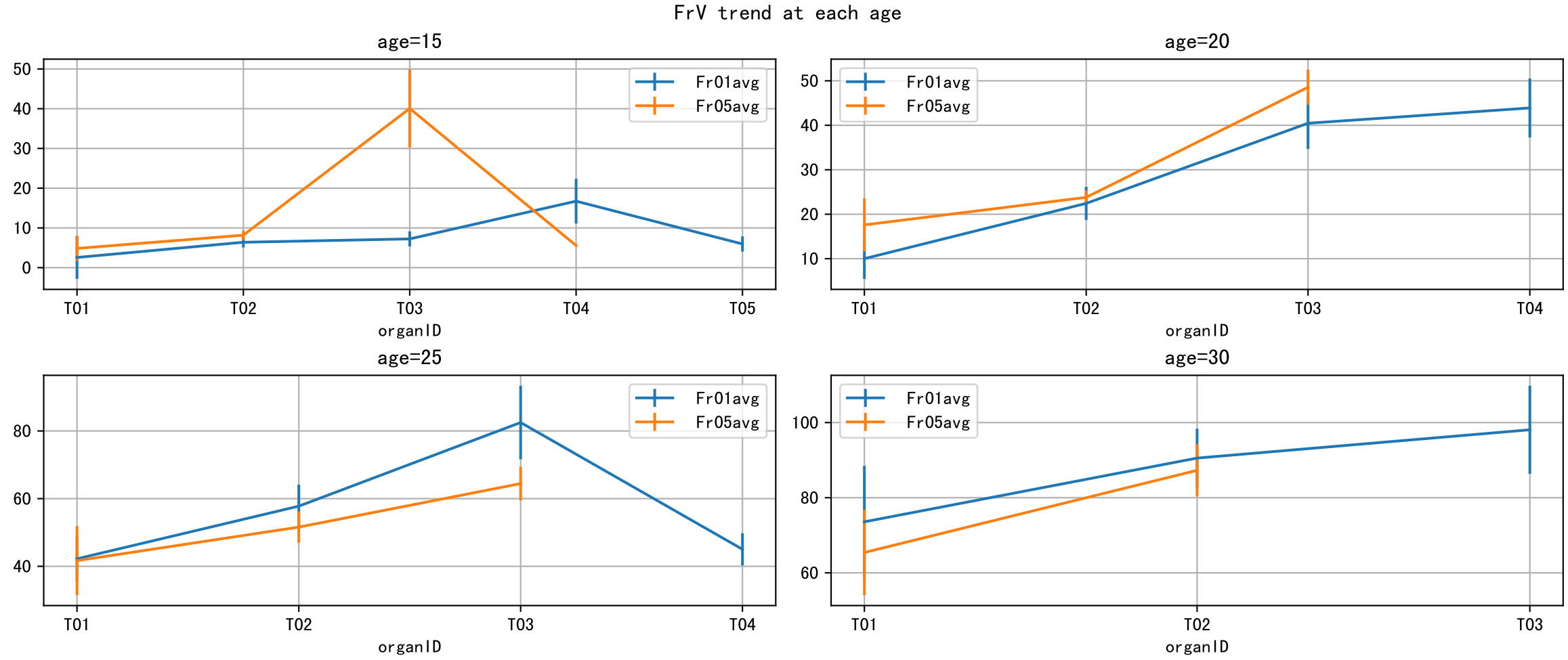

dStH: D_Q50_StH
pcrDelta_avg
10
5
0
−5
10
20
30
40
50
60
d

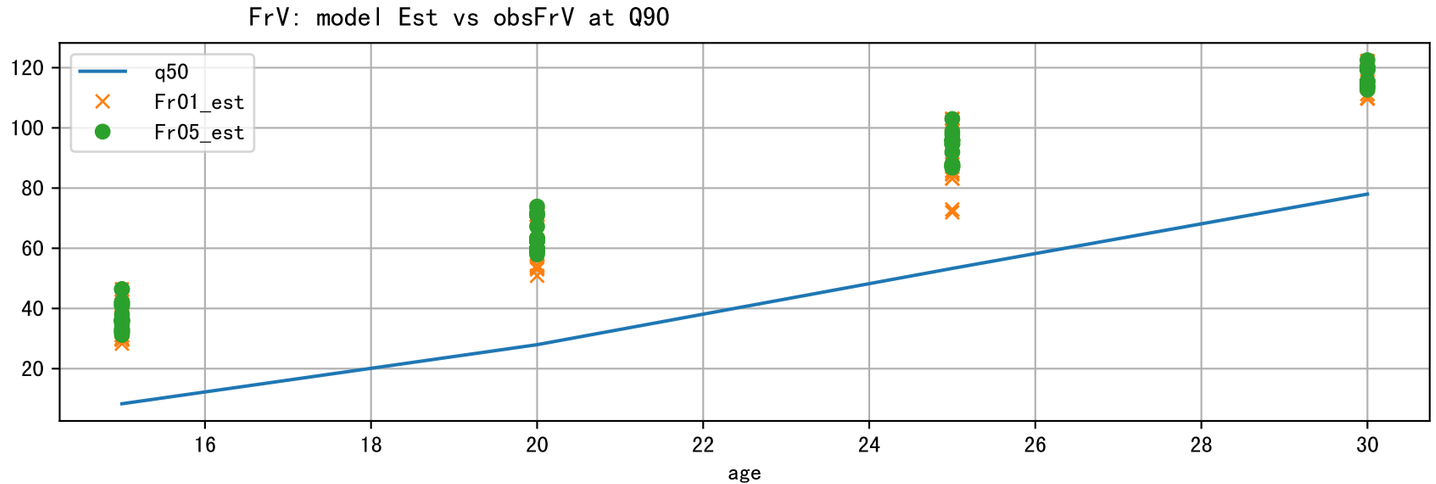

dStH: D_Est_StH
pcrDelta_avg
40
20
0
−20
10
20
30
40
50
60
d

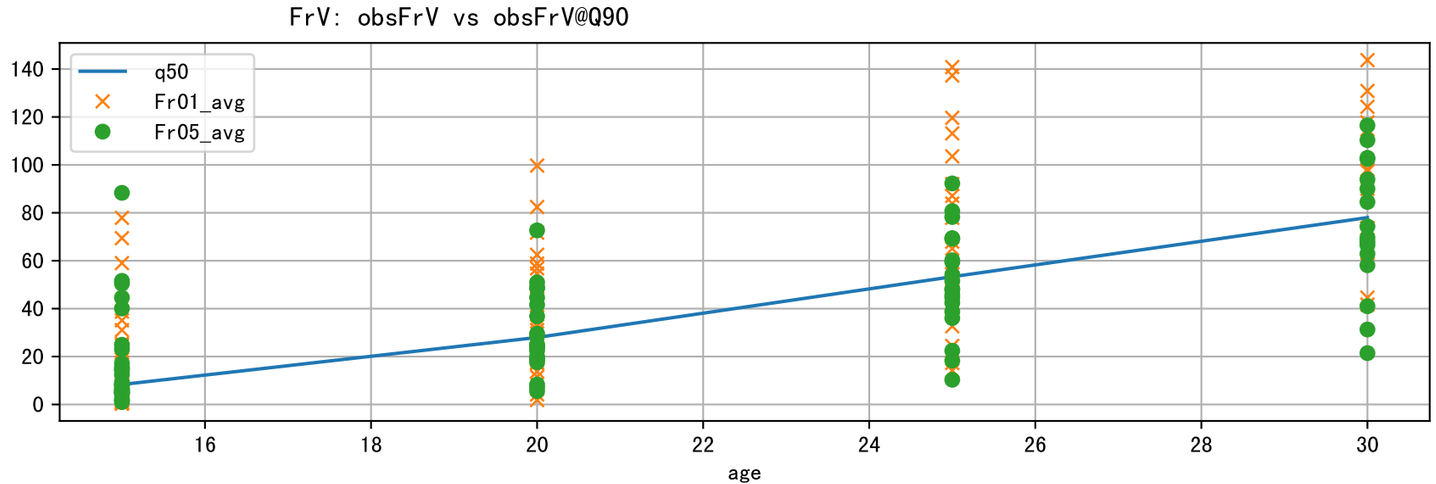

dStH: sfDem
sfDem
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
0
10
20
30
40
50
d
page 23

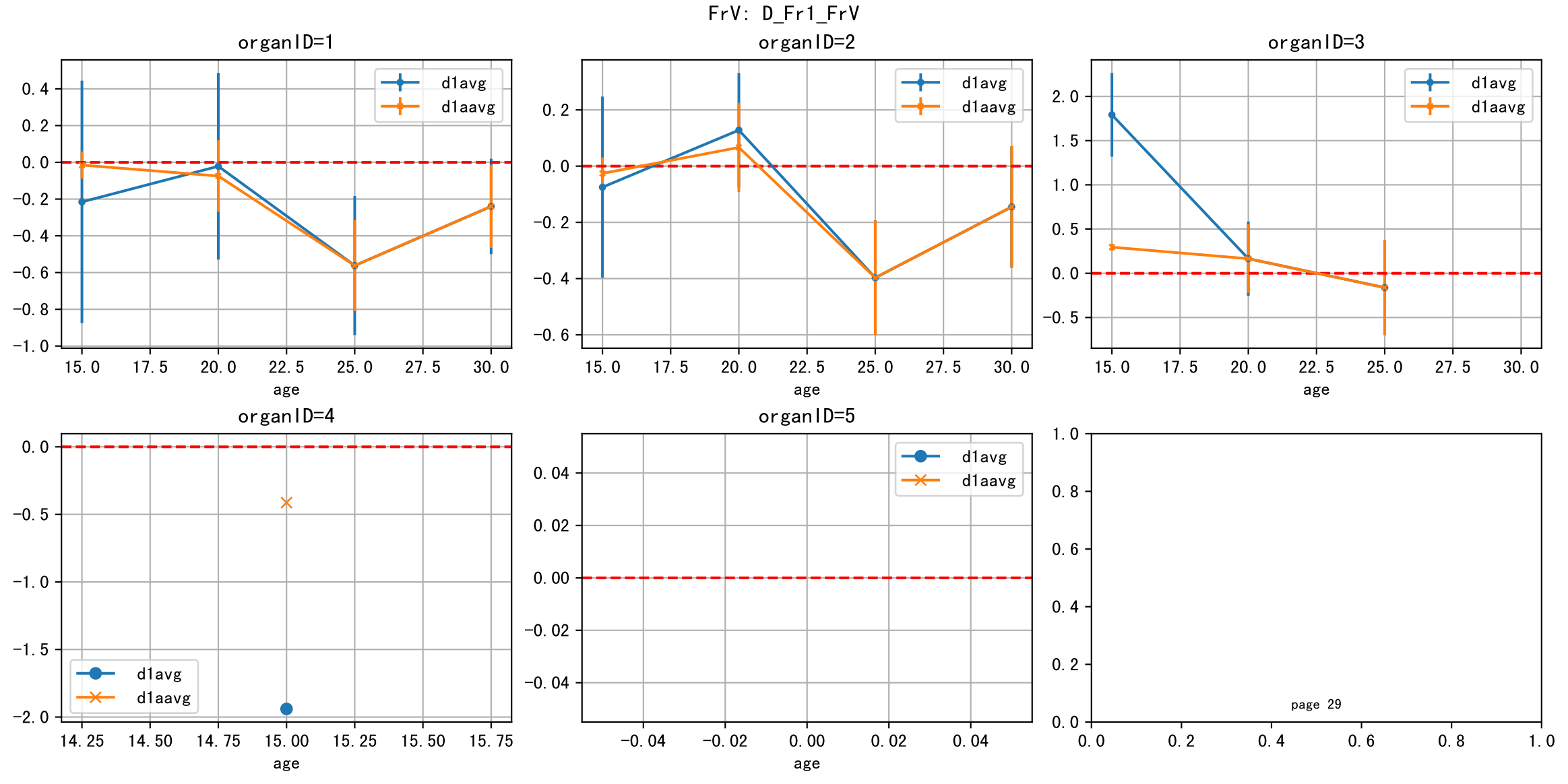

d
10
13
16
19
22
25
28
31
34
37
40
43
46
49
52
55
58
61
64
40
20
0
−20
−40

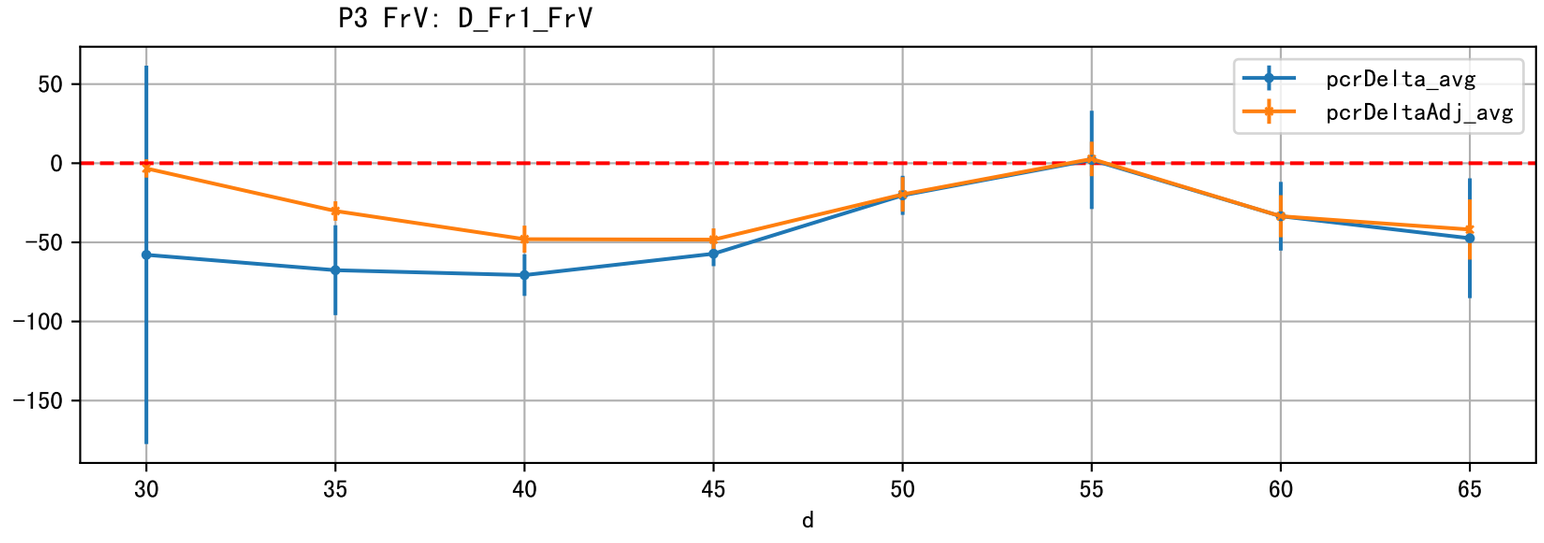

FrV: Fr01 vs Fr05 at each truss
organID=T01
Fr01avg
Fr05avg
age
organID=T02
Fr01avg
Fr05avg
age
organID=T03
Fr01avg
Fr05avg
age
organID=T04
Fr05avg
Fr01avg
age
organID=T05
Fr05avg
Fr01avg
age
page 25

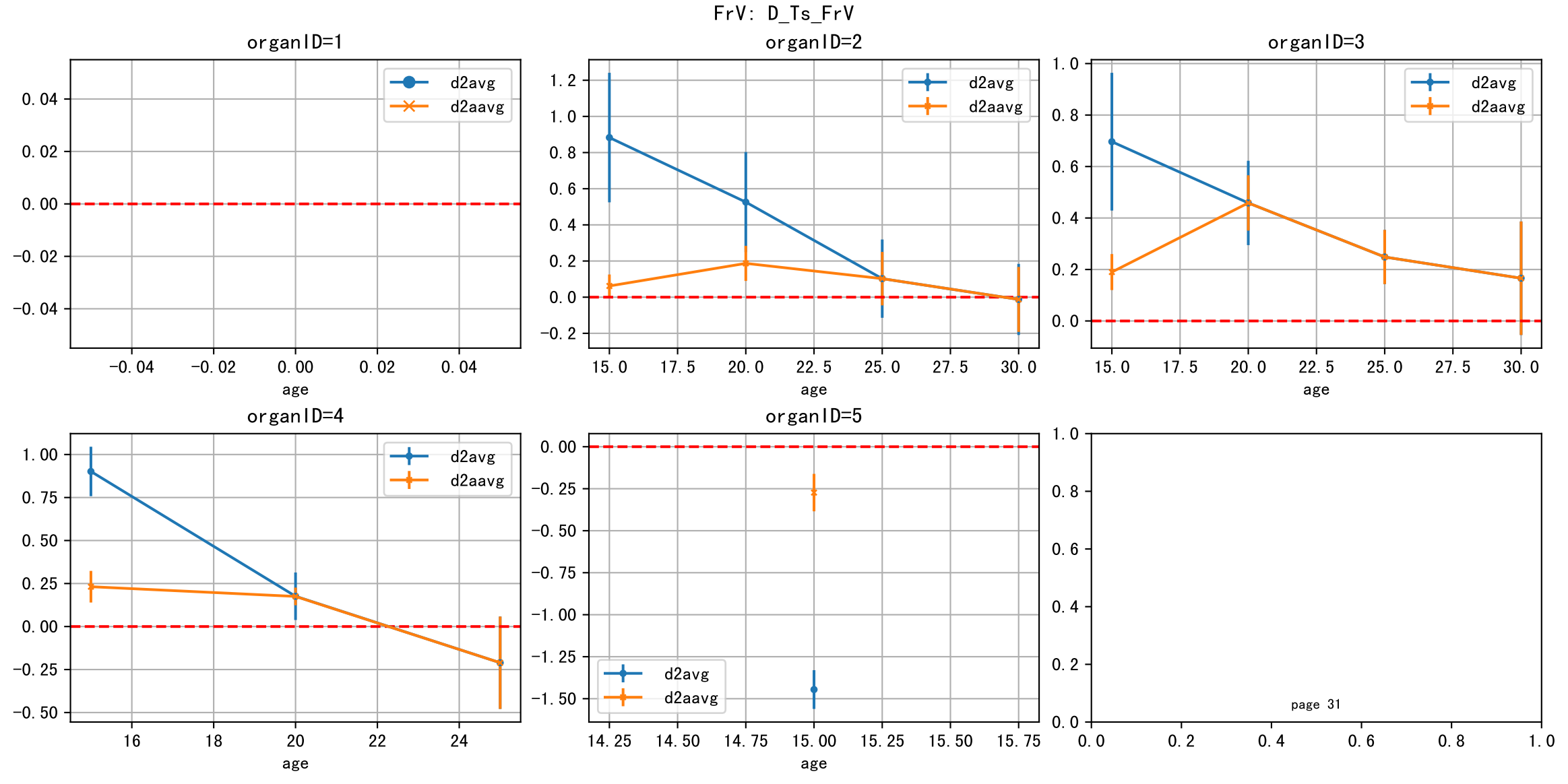

FrV trend at each age
age=15
Fr01avg
Fr05avg
organID
T01
T02
T03
T04
T05
age=20
Fr01avg
Fr05avg
organID
T01
T02
T03
T04
age=25
Fr01avg
Fr05avg
organID
T01
T02
T03
T04
age=30
Fr01avg
Fr05avg
organID
T01
T02
T03

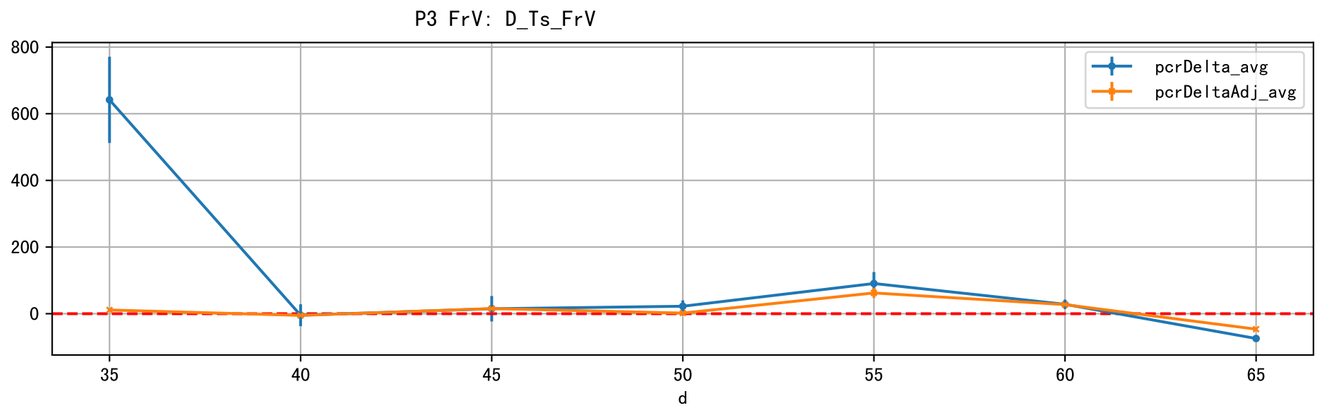

FrV: model Est vs obsFrV at Q90
q50
Fr01_est
Fr05_est
120
100
80
60
40
20
16
18
20
22
24
26
28
30
age

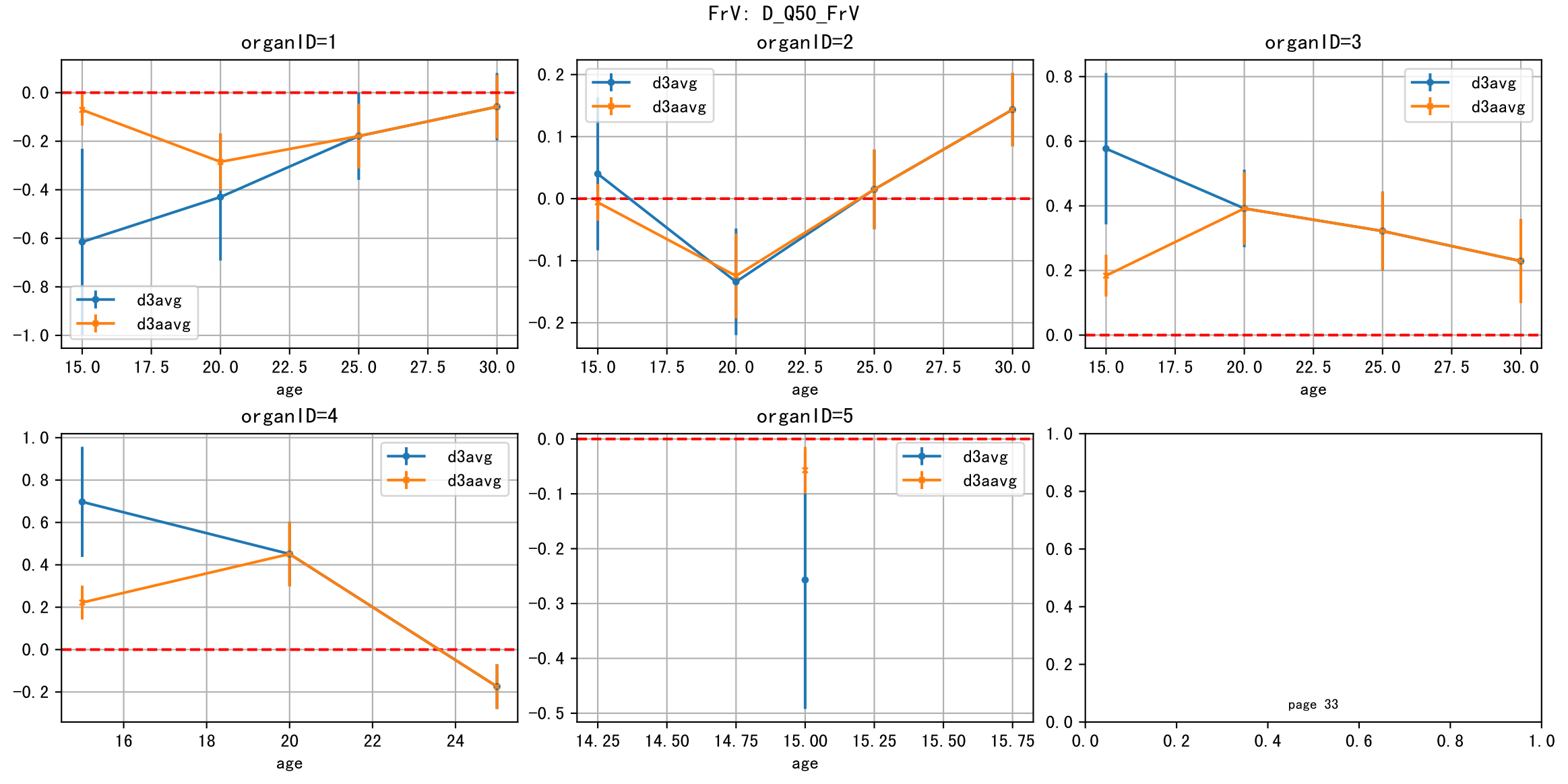

FrV: obsFrV vs obsFrV@Q90
q50
Fr01_avg
Fr05_avg
0
20
40
60
80
100
120
140
16
18
20
22
24
26
28
30
age

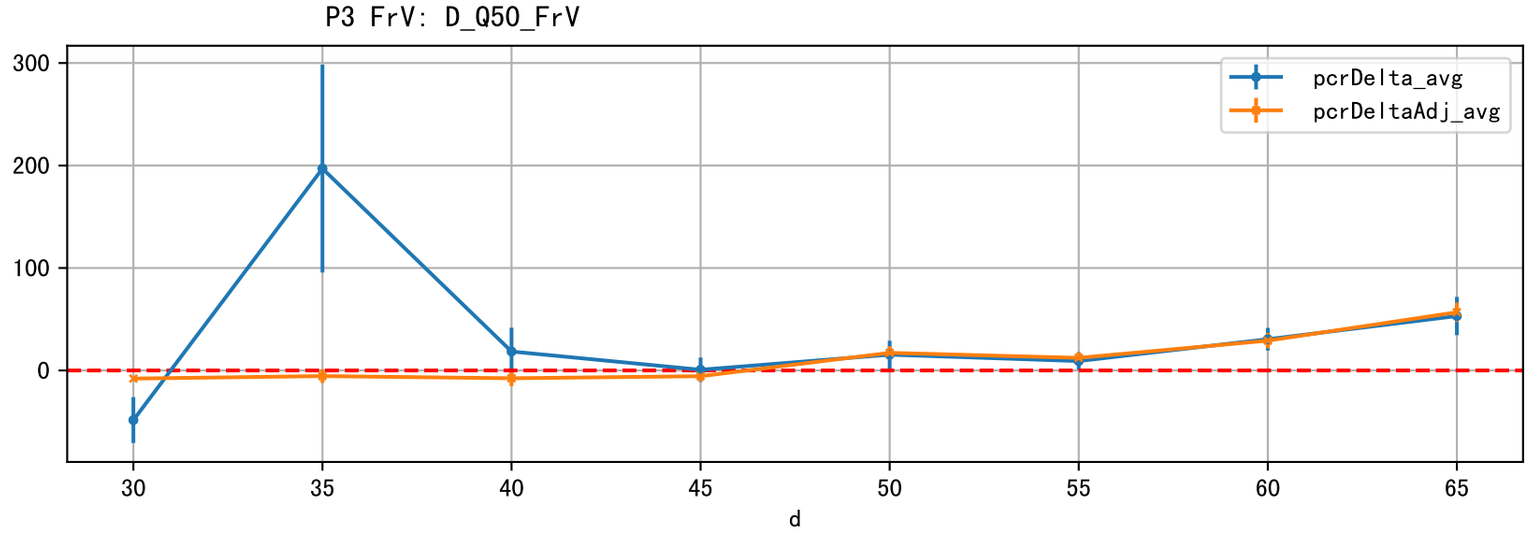

FrV: D_Fr1_FrV
organID=1
organID=2
organID=3
organID=4
organID=5
d1avg
d1aavg
age
page 29

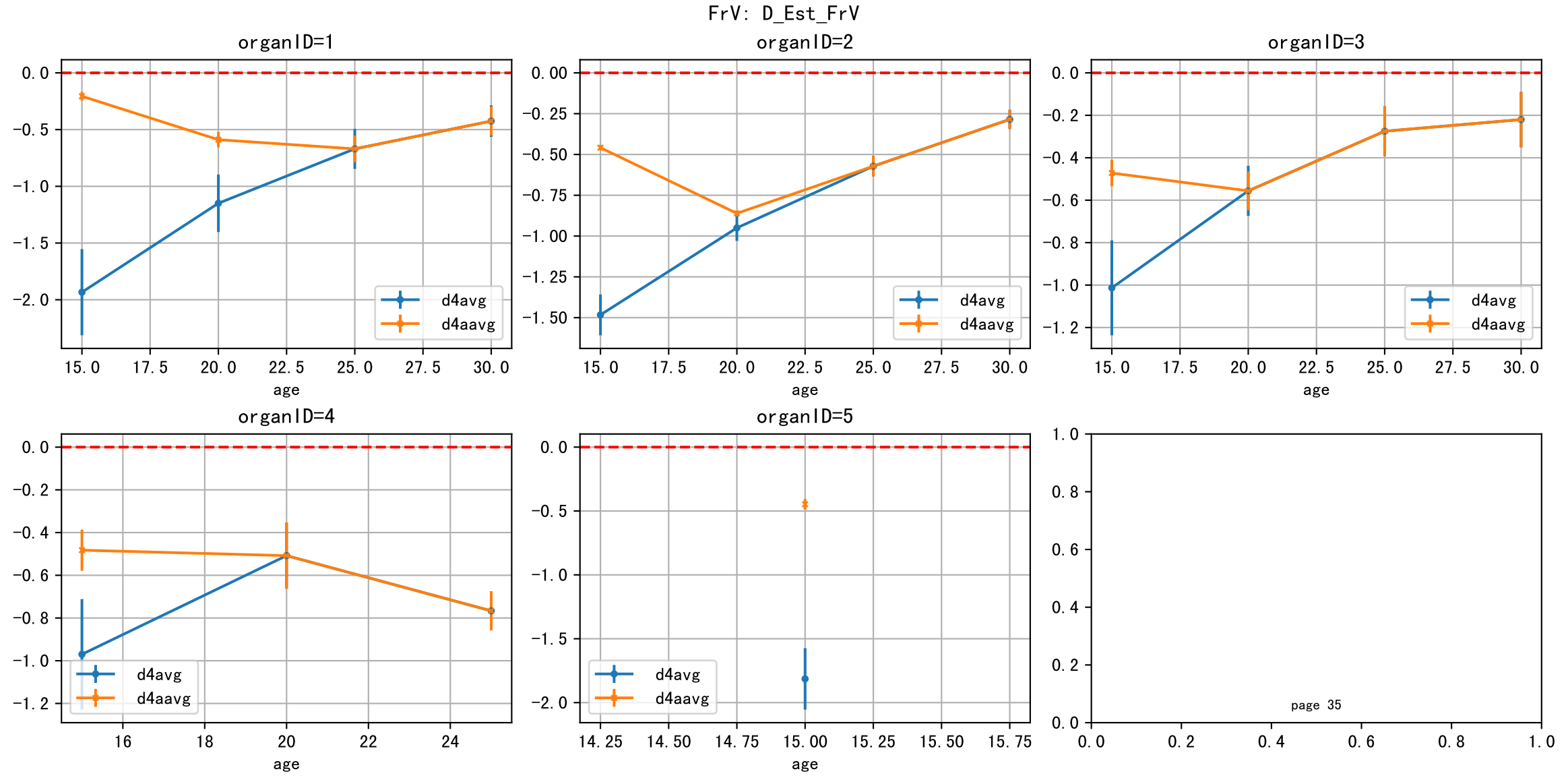

P3 FrV: D_Fr1_FrV
pcrDelta_avg
pcrDeltaAdj_avg
50
0
−50
−100
−150
30
35
40
45
50
55
60
65
d

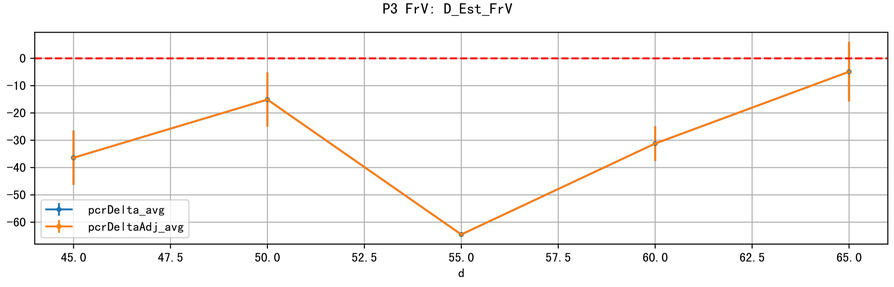

FrV: D_Ts_FrV
organID=1
organID=2
organID=3
organID=4
organID=5
d2avg
d2aavg
age
page 31

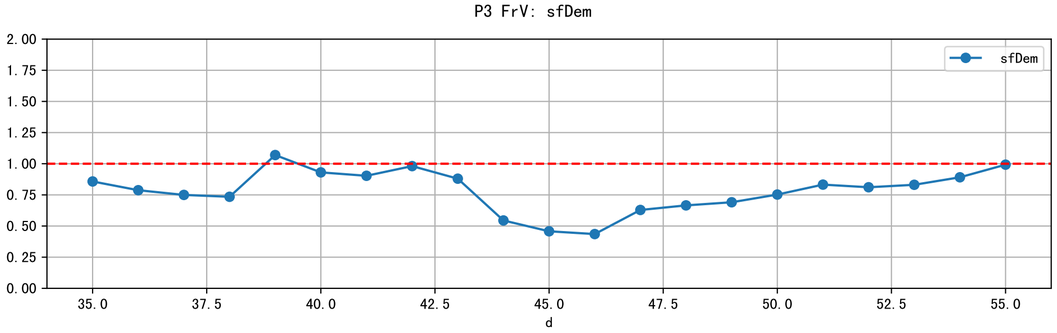

P3 FrV: D_Ts_FrV
800
600
400
200
0
35
40
45
50
55
60
65
d
pcrDelta_avg
pcrDeltaAdj_avg

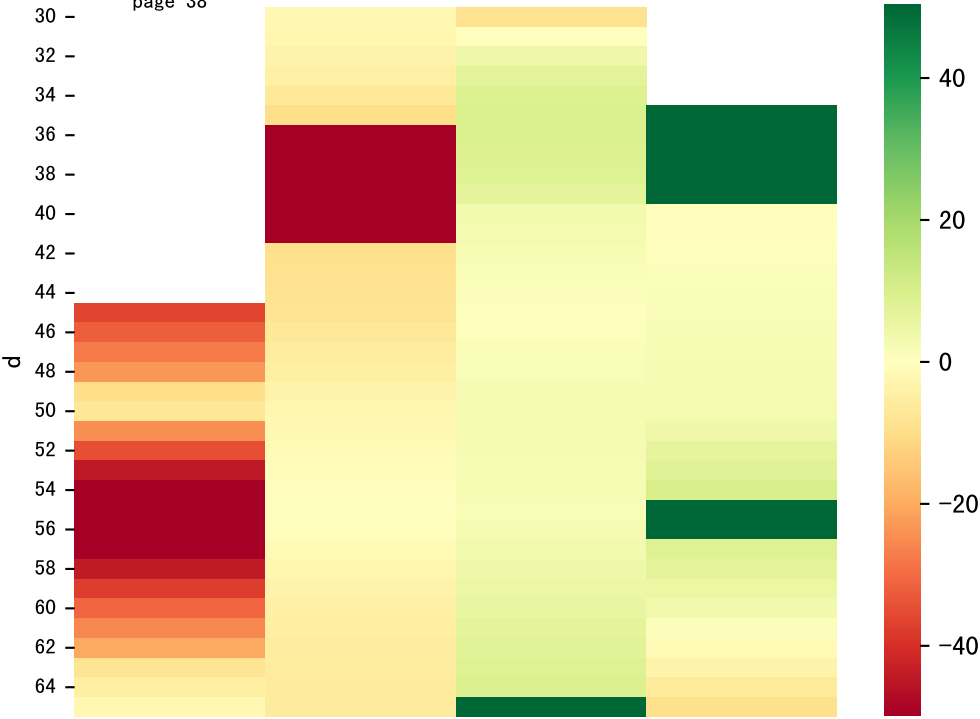

FrV: D_Q50_FrV
organID=1
organID=2
organID=3
organID=4
organID=5
d3avg
d3aavg
age
page 33

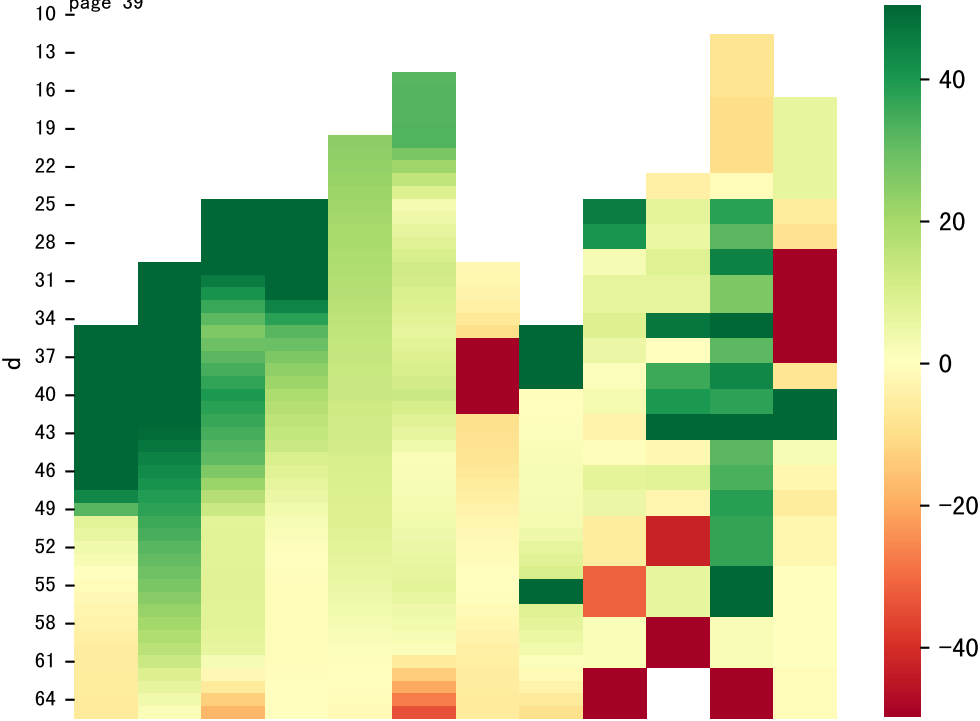

P3 FrV: D_Q50_FrV
pcrDelta_avg
pcrDeltaAdj_avg
300
200
100
0
30
35
40
45
50
55
60
65
d


FrV: D_Est_FrV
organID=1
organID=2
organID=3
organID=4
organID=5
d4avg
d4aavg
age
page 35


P3 FrV: D_Est_FrV
0
−10
−20
−30
−40
−50
−60
pcrDelta_avg
pcrDeltaAdj_avg
45.0
47.5
50.0
52.5
55.0
57.5
60.0
62.5
65.0
d


P3 FrV: sfDem
sfDem
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
35.0
37.5
40.0
42.5
45.0
47.5
50.0
52.5
55.0
d


30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
d
40
20
0
−20
−40


d
10
13
16
19
22
25
28
31
34
37
40
43
46
49
52
55
58
61
64
40
20
0
−20
−40