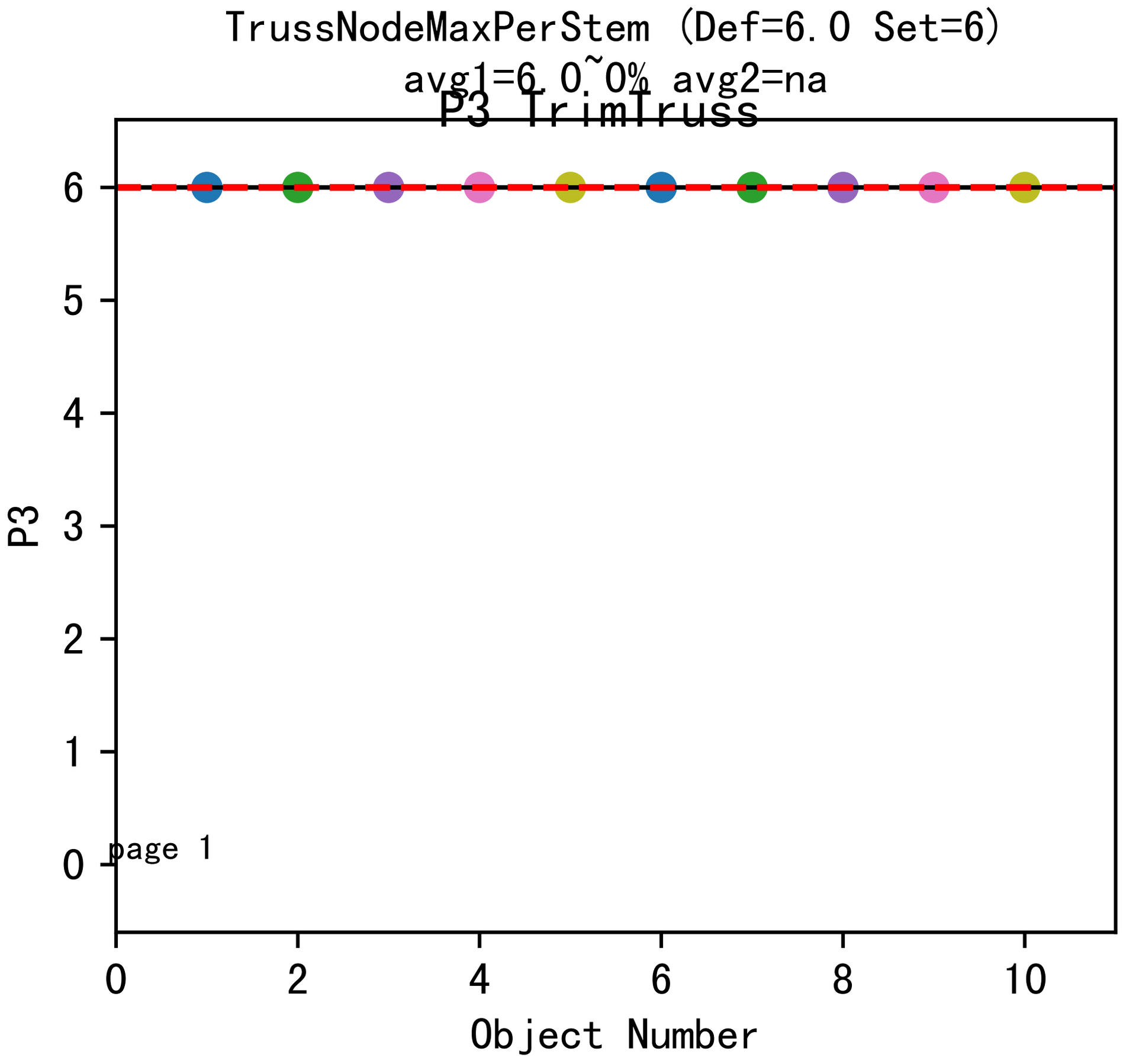
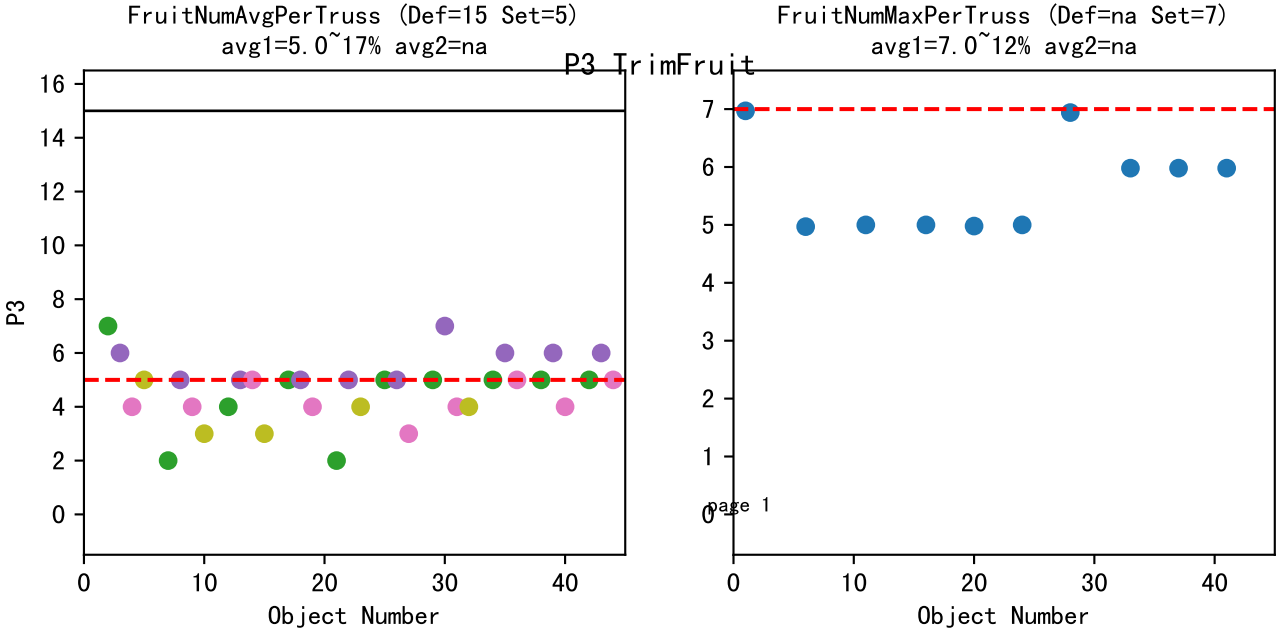
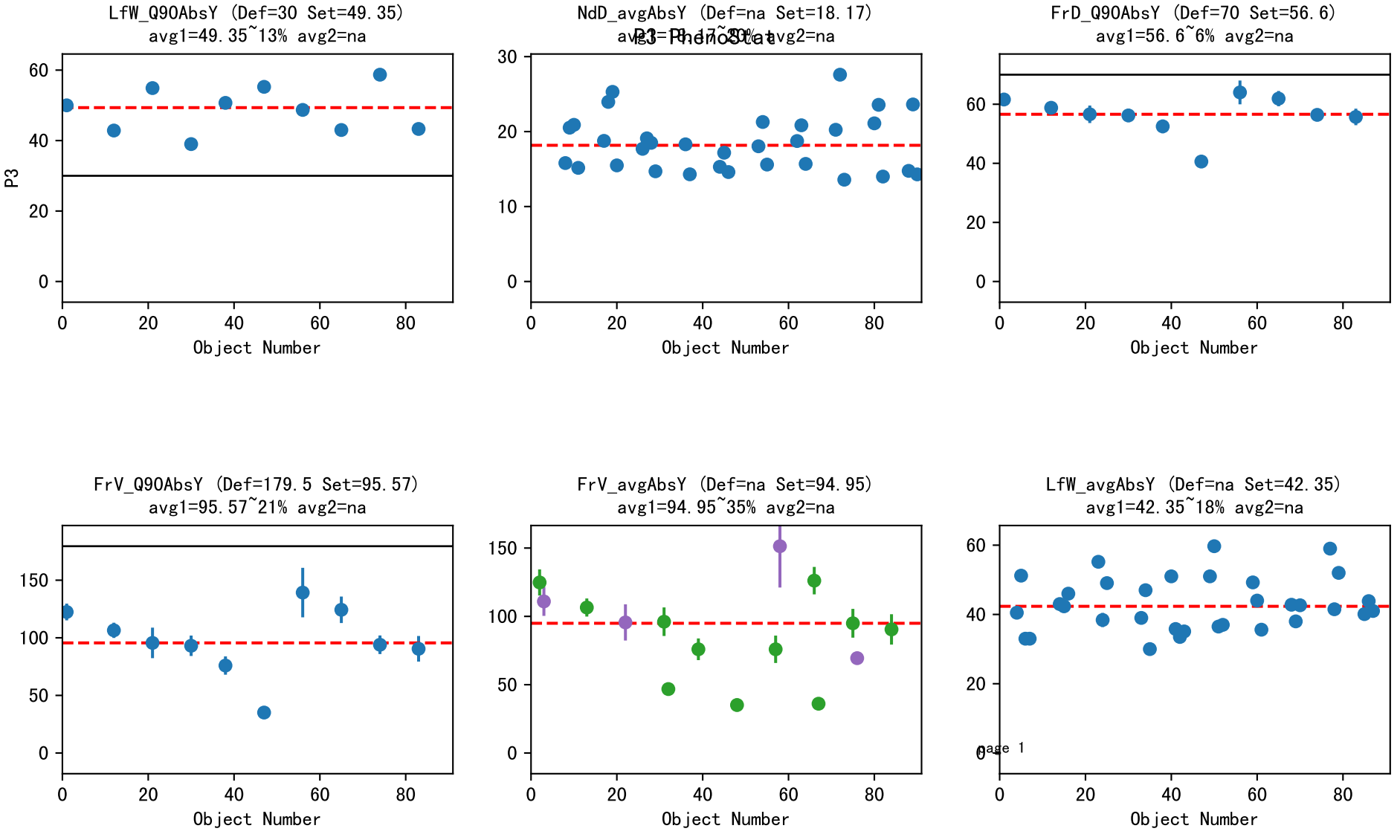
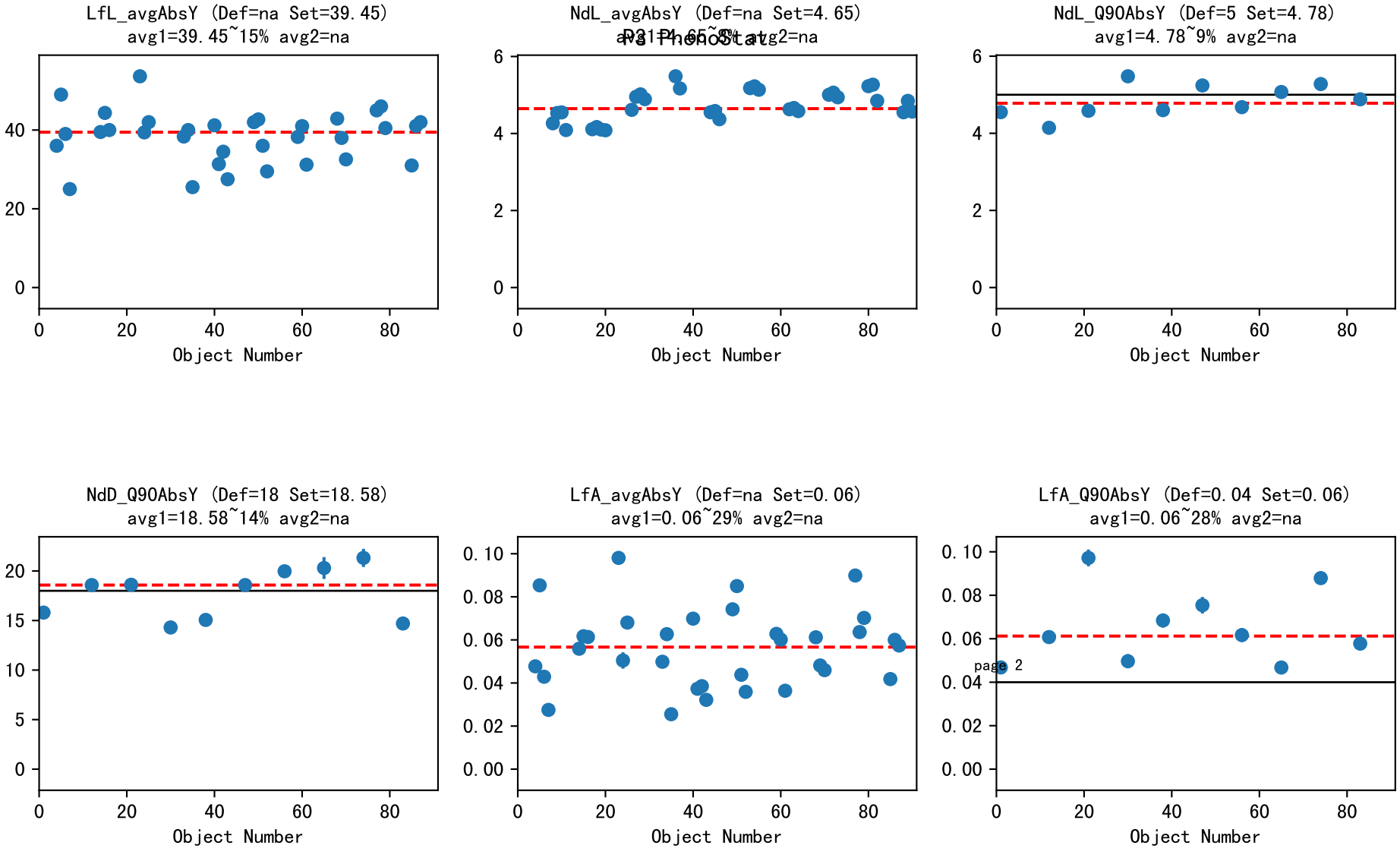
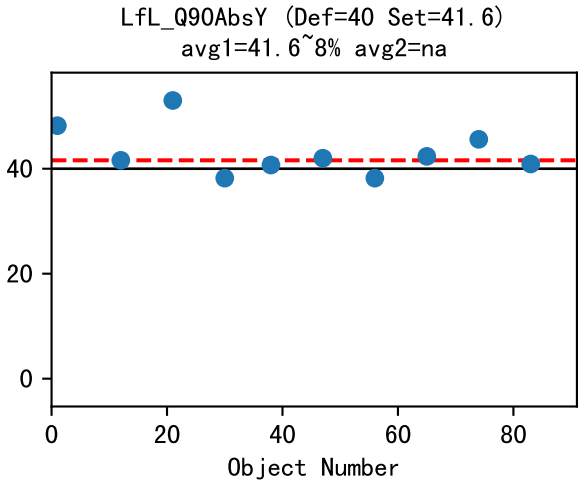
Phenotype Data Analysis Plots
PhenoData day range = 5 - 61
Analysis cutoff day = 61
NC11 P3
2025-06-06 (Day 62)

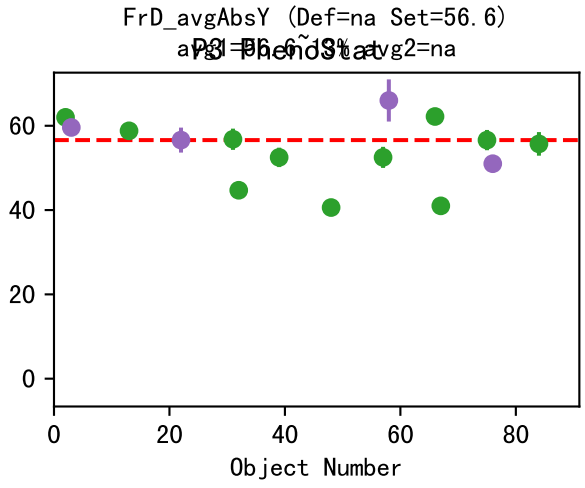

TrussNodeMaxPerStem (Def=6.0 Set=6)
avg1=6.0~0% avg2=na
P3 TrimTruss
6
5
4
3
2
1
0
P3
page 1
0
2
4
6
8
10
Object Number

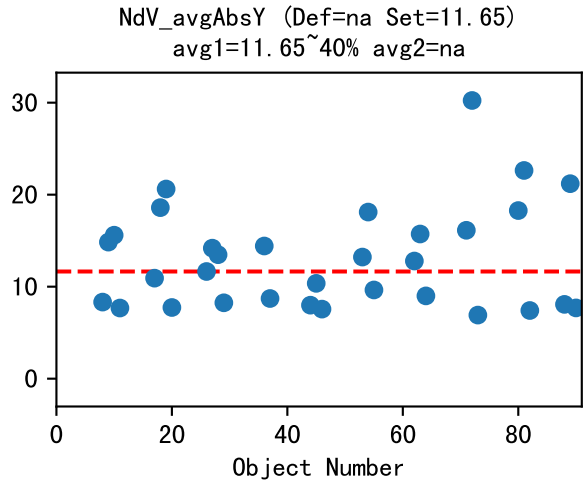

FruitNumAvgPerTruss (Def=15 Set=5)
avg1=5.0~17% avg2=na
P3 TrimFruit
FruitNumMaxPerTruss (Def=na Set=7)
avg1=7.0~12% avg2=na
P3
Object Number
Object Number
page 1

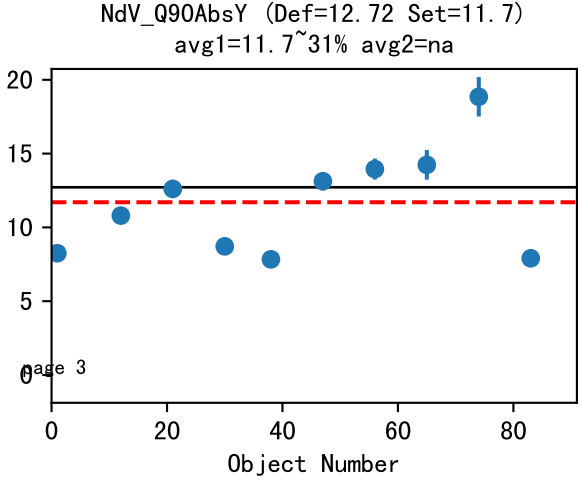

LfW_Q90AbsY (Def=30 Set=49.35)
avg1=49.35~13% avg2=na
NdD_avgAbsY (Def=na Set=18.17)
avg1=18.17~28% avg2=na
P3 Thermostat
FrD_Q90AbsY (Def=70 Set=56.6)
avg1=56.6~6% avg2=na
FrV_Q90AbsY (Def=179.5 Set=95.57)
avg1=95.57~21% avg2=na
FrV_avgAbsY (Def=na Set=94.95)
avg1=94.95~35% avg2=na
LfW_avgAbsY (Def=na Set=42.35)
avg1=42.35~18% avg2=na
P3
Object Number
page 1

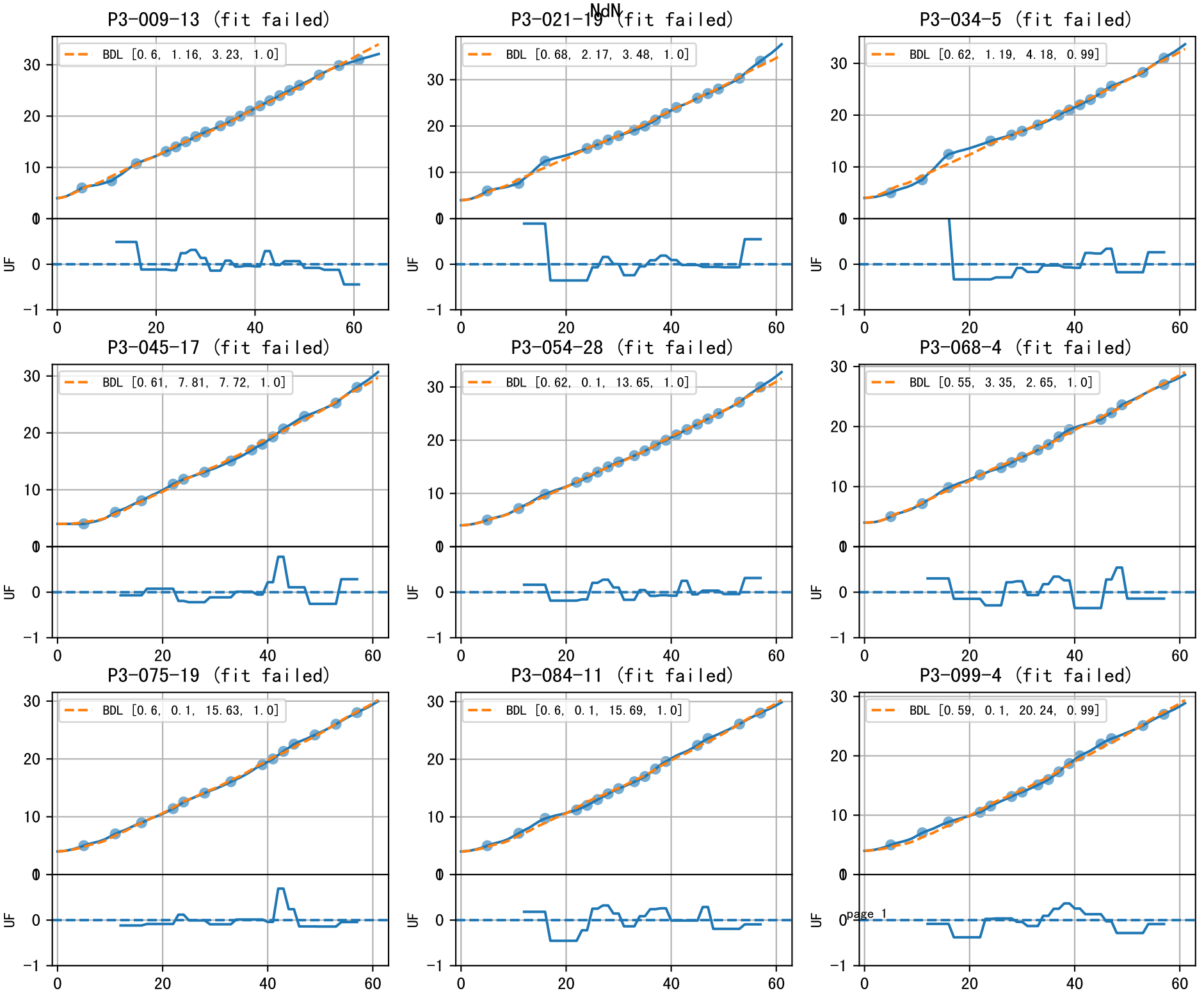

LfL_avgAbsY (Def=na Set=39.45)
avg1=39.45~15% avg2=na
NdL_avgAbsY (Def=na Set=4.65)
avg1=4.65~8% avg2=na
NdL_Q90AbsY (Def=5 Set=4.78)
avg1=4.78~9% avg2=na
NdD_Q90AbsY (Def=18 Set=18.58)
avg1=18.58~14% avg2=na
LfA_avgAbsY (Def=na Set=0.06)
avg1=0.06~29% avg2=na
LfA_Q90AbsY (Def=0.04 Set=0.06)
avg1=0.06~28% avg2=na
Object Number


LfL_Q90AbsY (Def=40 Set=41.6)
avg1=41.6~8% avg2=na
Object Number

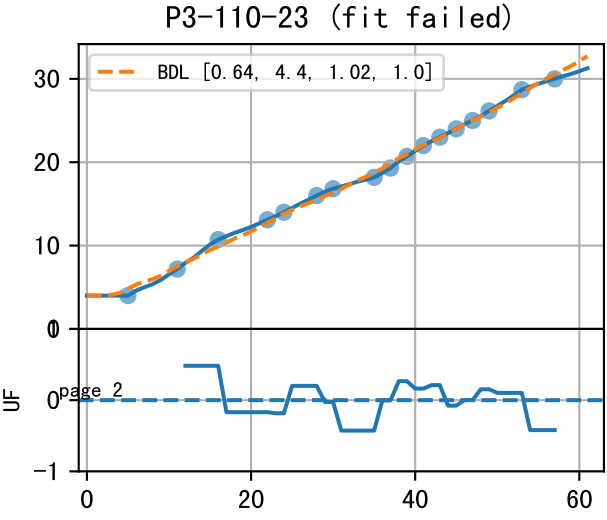

FrD_avgAbsY (Def=na Set=56.6)
avg1=56.6~13% avg2=na
Object Number

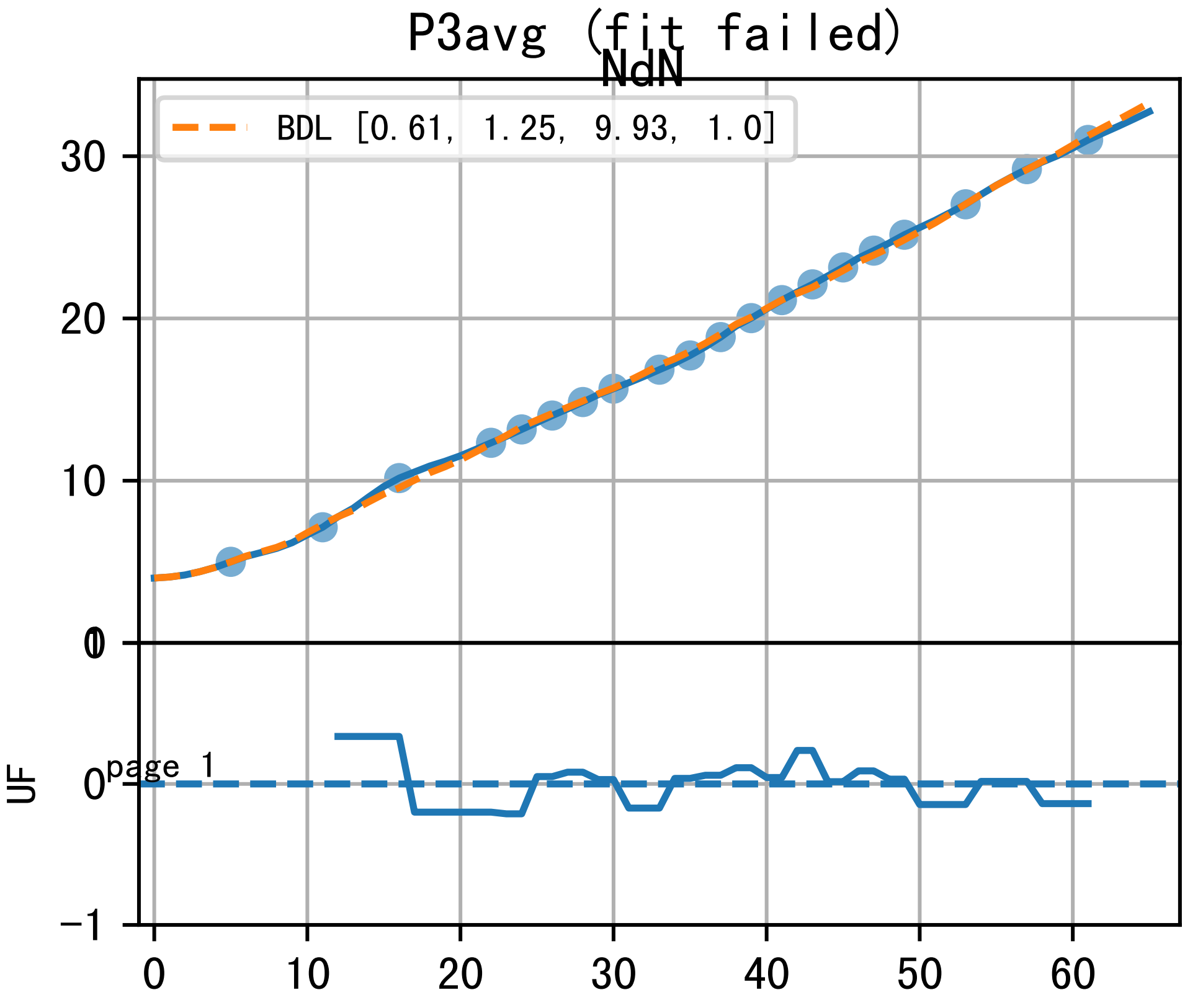

NdV_avgAbsY (Def=na Set=11.65)
avg1=11.65~40% avg2=na
Object Number

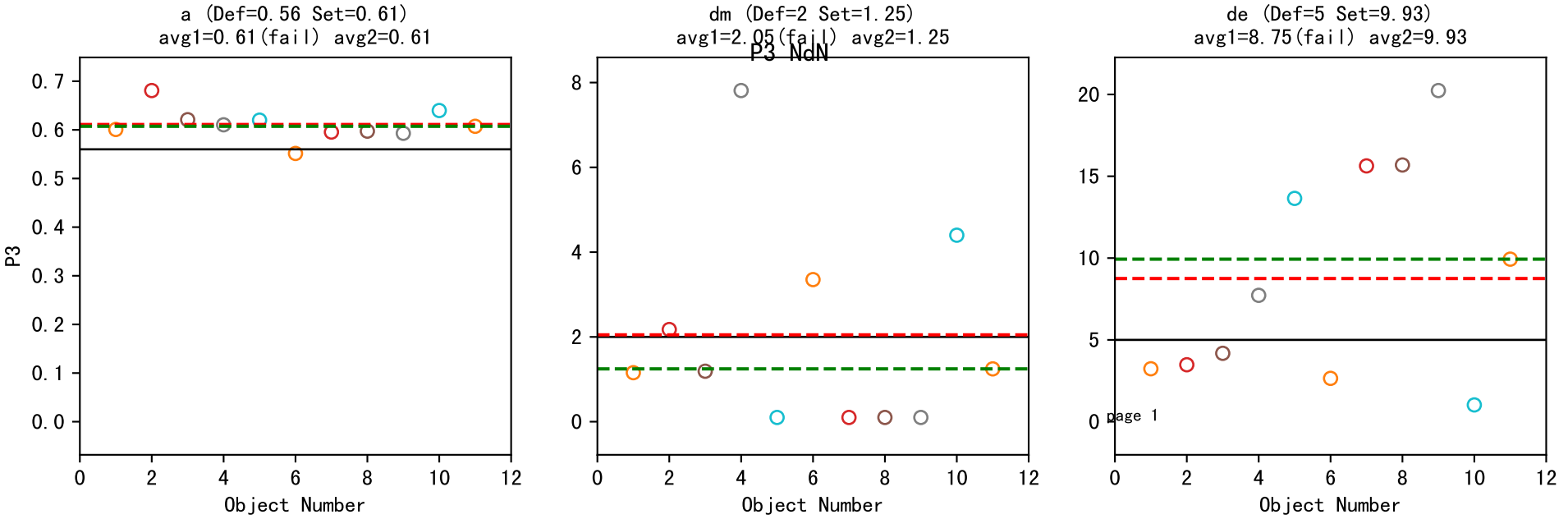

NdV_Q90AbsY (Def=12.72 Set=11.7)
avg1=11.7~31% avg2=na
Object Number

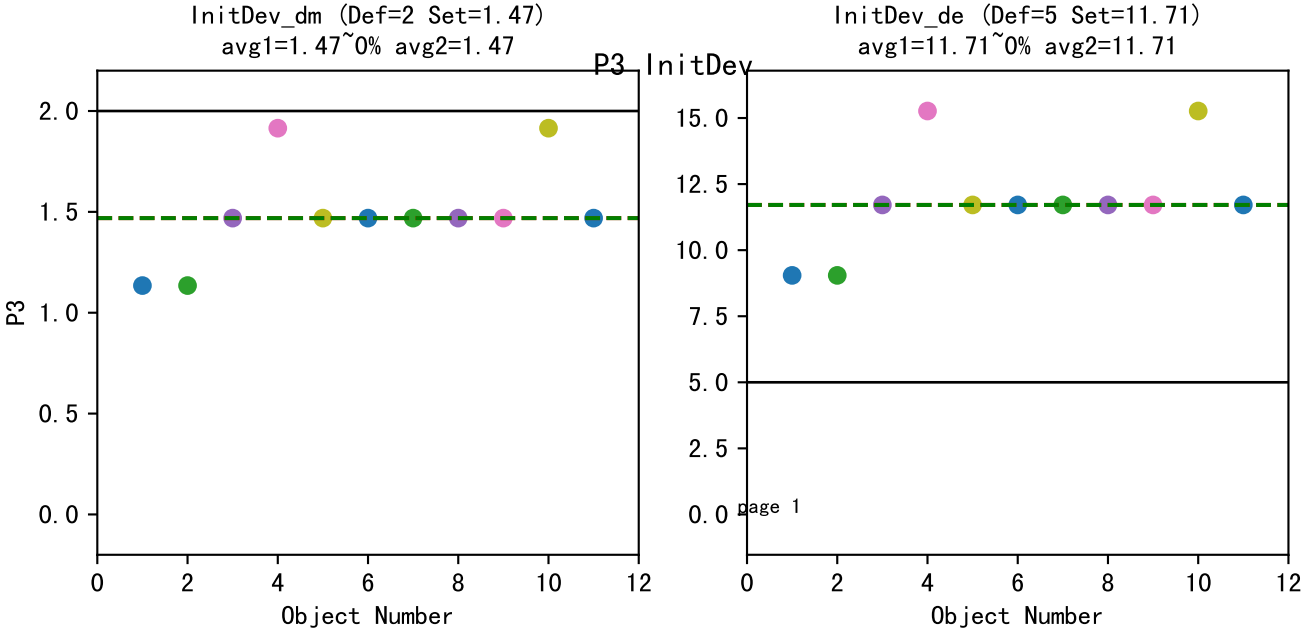

NdN
P3-009-13 (fit failed)
BDL [0.6, 1.16, 3.23, 1.0]
P3-021-19 (fit failed)
BDL [0.68, 2.17, 3.48, 1.0]
P3-034-5 (fit failed)
BDL [0.62, 1.19, 4.18, 0.99]
P3-045-17 (fit failed)
BDL [0.61, 7.81, 7.72, 1.0]
P3-054-28 (fit failed)
BDL [0.62, 0.1, 13.65, 1.0]
P3-068-4 (fit failed)
BDL [0.55, 3.35, 2.65, 1.0]
P3-075-19 (fit failed)
BDL [0.6, 0.1, 15.63, 1.0]
P3-084-11 (fit failed)
BDL [0.6, 0.1, 15.69, 1.0]
P3-099-4 (fit failed)
BDL [0.59, 0.1, 20.24, 0.99]
UF

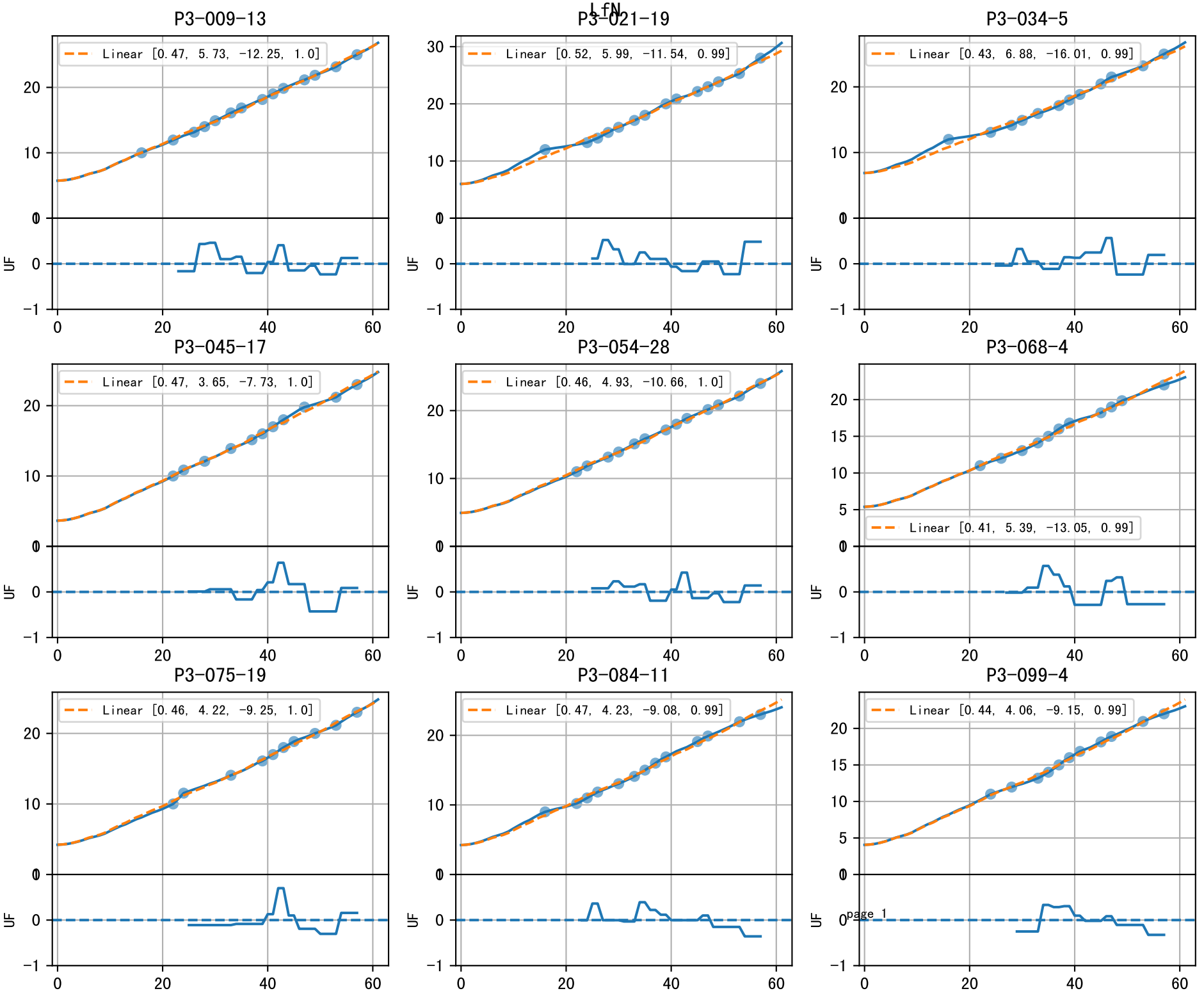
NdN

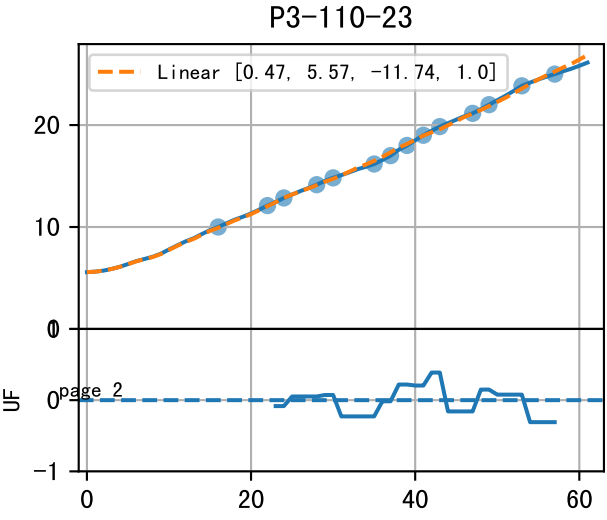


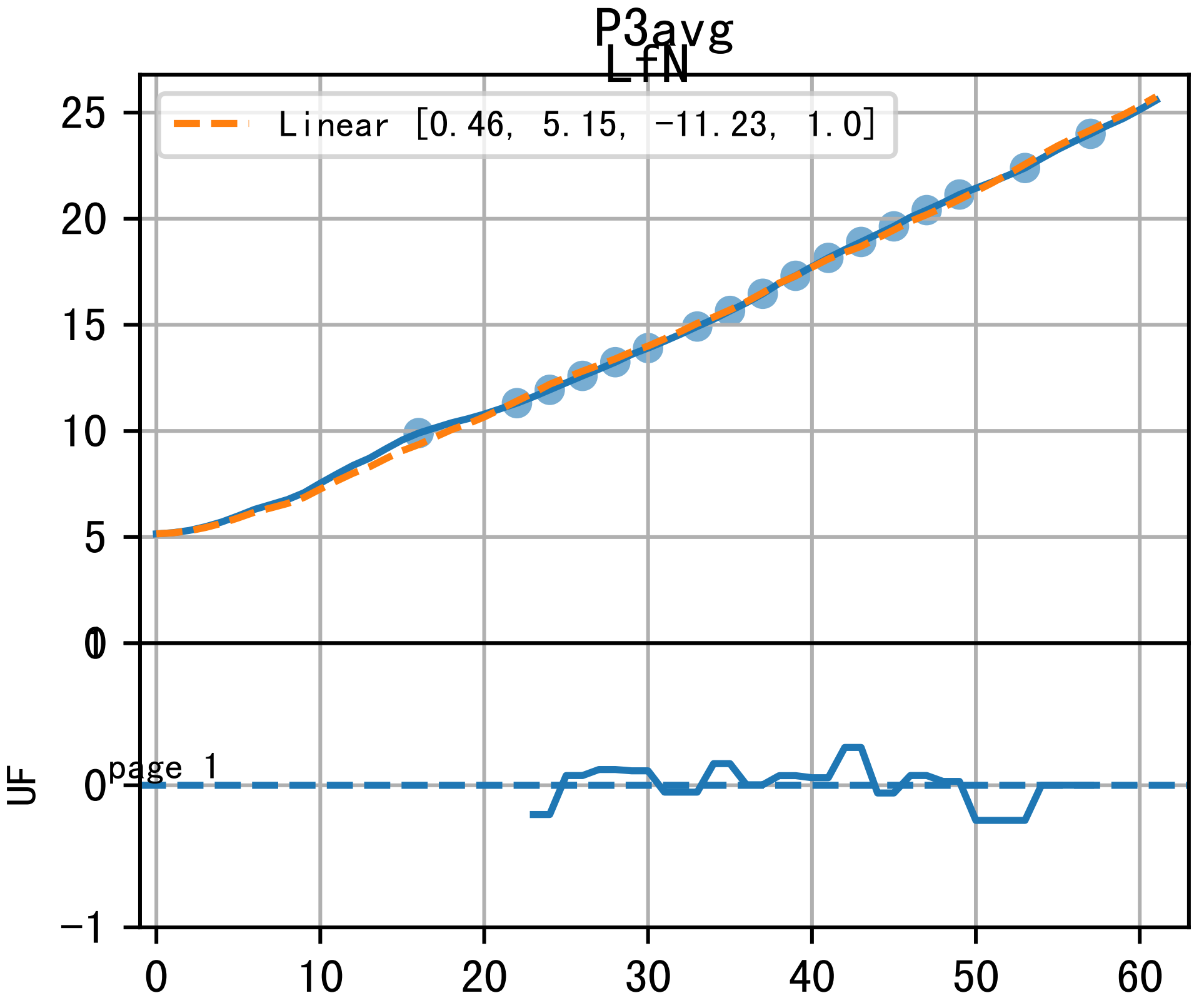

P3avg (fit failed)
NdN
BDL [0.61, 1.25, 9.93, 1.0]
30
20
10
0
UF
0
−1
0
10
20
30
40
50
60

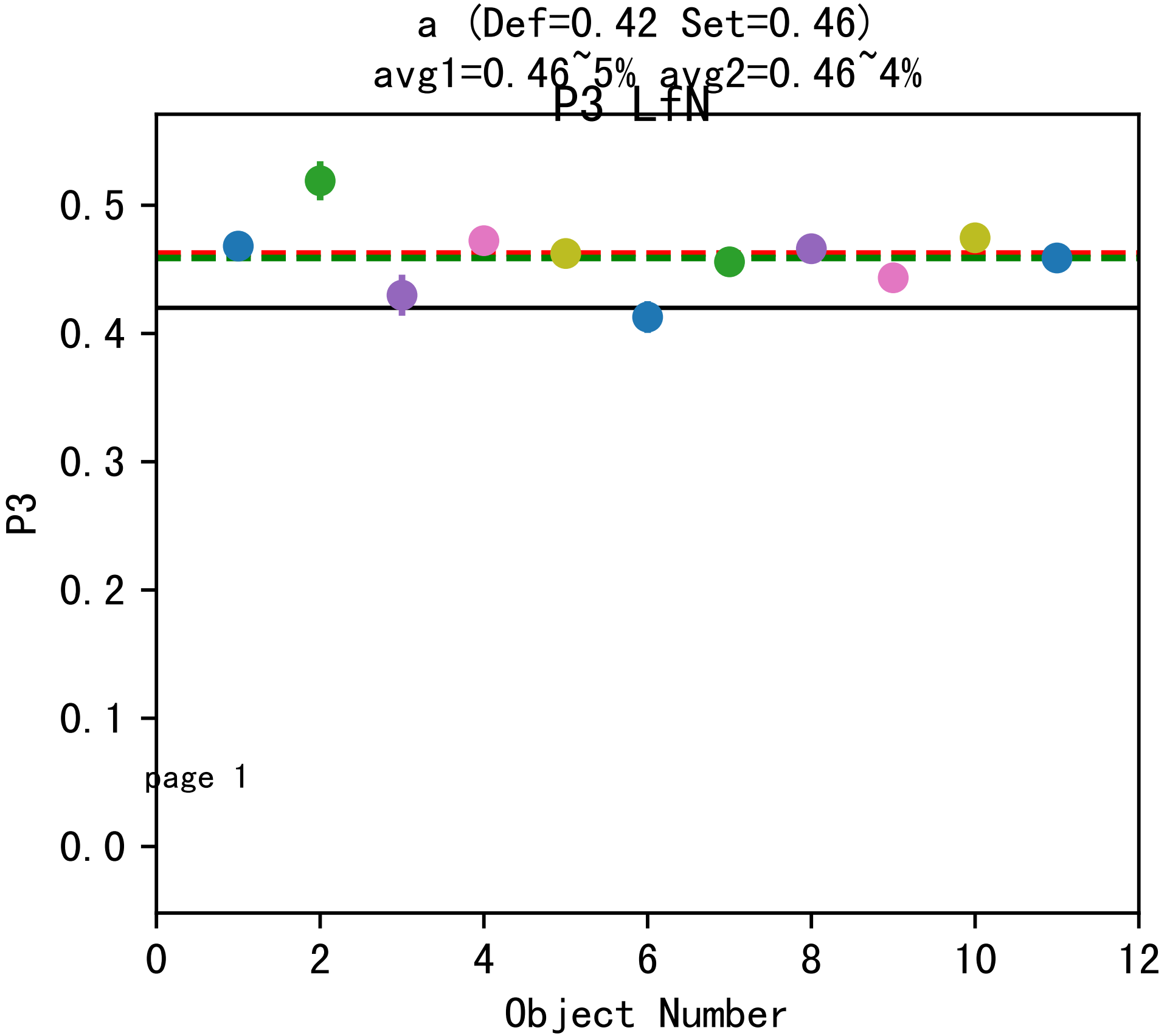

a (Def=0.56 Set=0.61)
avg1=0.61(fail) avg2=0.61
dm (Def=2 Set=1.25)
avg1=2.05(fail) avg2=1.25
P3 NdN
de (Def=5 Set=9.93)
avg1=8.75(fail) avg2=9.93
P3
Object Number
Object Number
Object Number
page 1


P3_InitDev
InitDev_dm (Def=2 Set=1.47)
avg1=1.47~0% avg2=1.47
InitDev_de (Def=5 Set=11.71)
avg1=11.71~0% avg2=11.71
P3
Object Number
Object Number
page 1

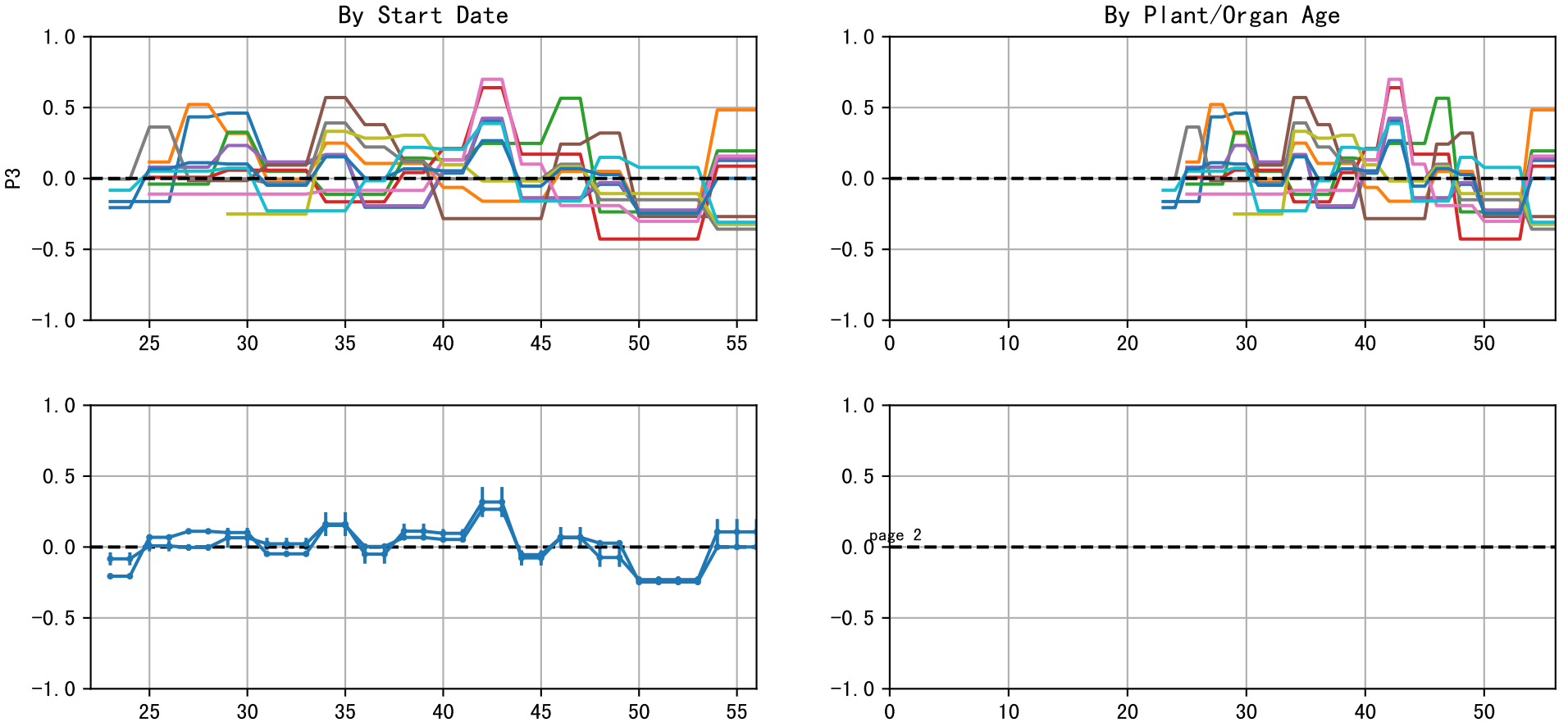

LfN
P3-009-13
Linear [0.47, 5.73, -12.25, 1.0]
P3-021-19
Linear [0.52, 5.99, -11.54, 0.99]
P3-034-5
Linear [0.43, 6.88, -16.01, 0.99]
P3-045-17
Linear [0.47, 3.65, -7.73, 1.0]
P3-054-28
Linear [0.46, 4.93, -10.66, 1.0]
P3-068-4
Linear [0.41, 5.39, -13.05, 0.99]
P3-075-19
Linear [0.46, 4.22, -9.25, 1.0]
P3-084-11
Linear [0.47, 4.23, -9.08, 0.99]
P3-099-4
Linear [0.44, 4.06, -9.15, 0.99]
UF

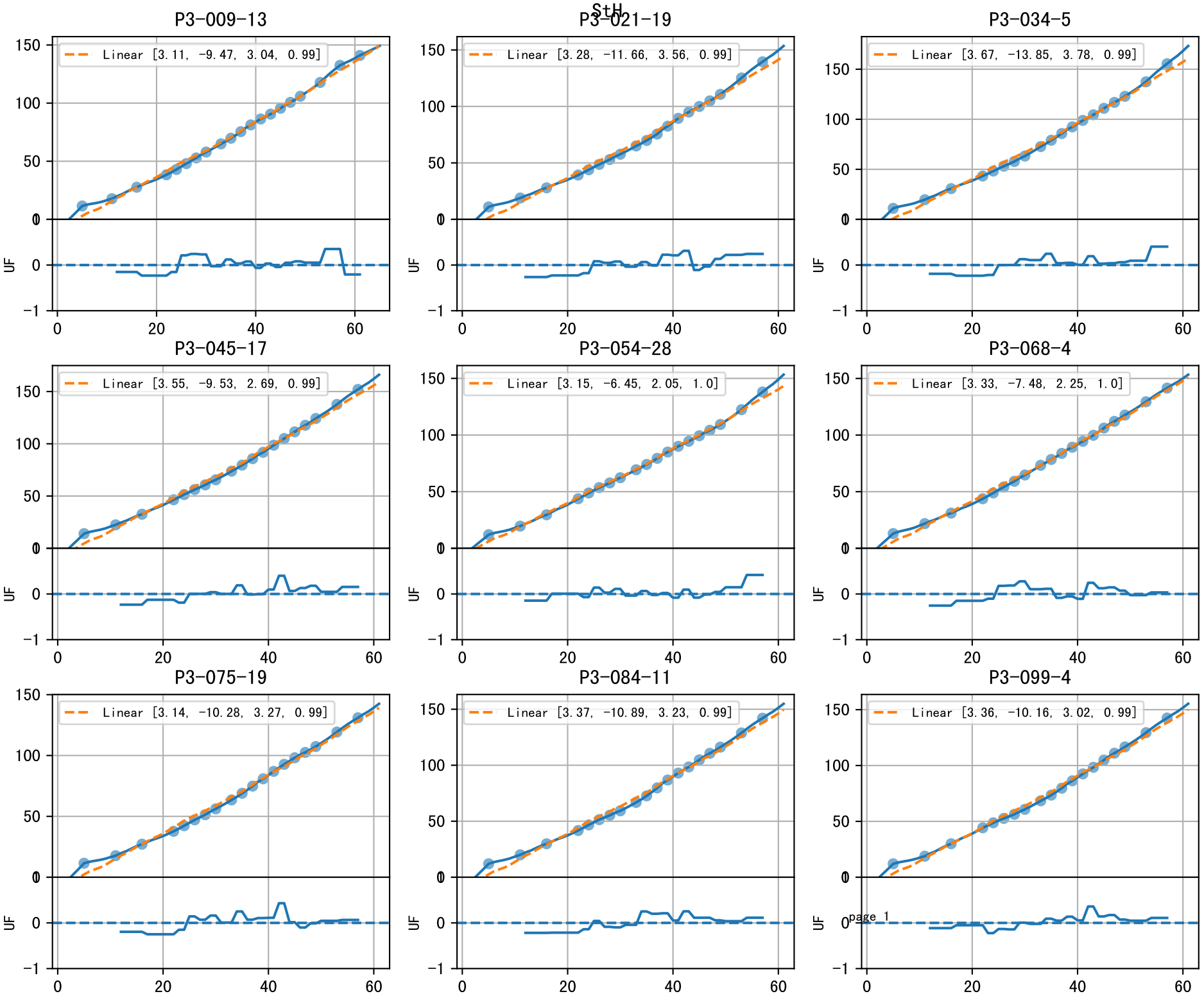

P3-110-23
Linear [0.47, 5.57, -11.74, 1.0]
20
10
0
UF
0
-1
0
20
40
60

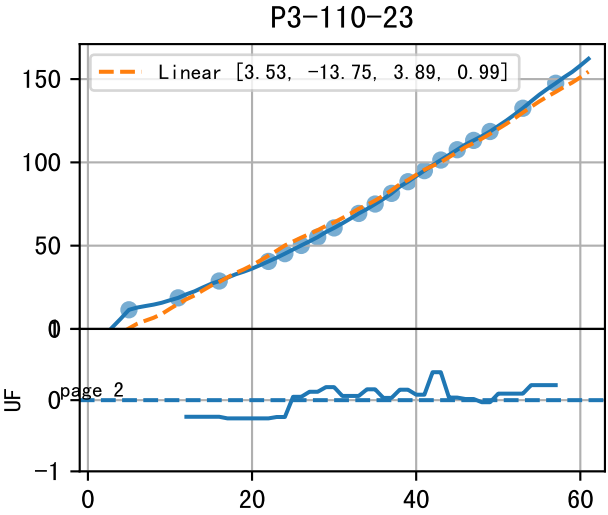

P3avg
LfN
Linear [0.46, 5.15, -11.23, 1.0]
25
20
15
10
5
0
0
UF
page 1
-1
0
10
20
30
40
50
60

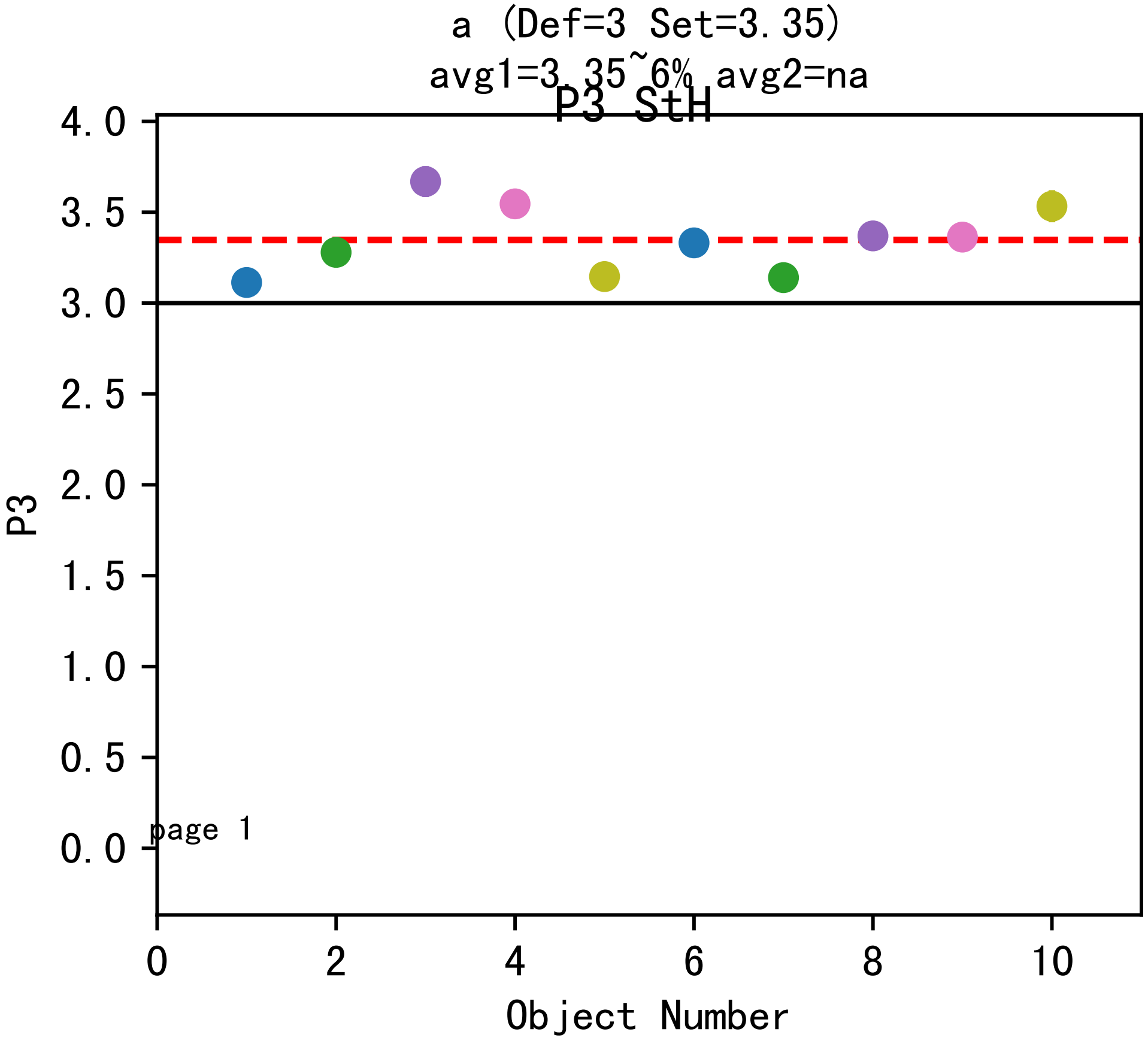

a (Def=0.42 Set=0.46)
avg1=0.46~5% avg2=0.46~4%
P3 LfN
0.5
0.4
0.3
0.2
0.1
0.0
P3
page 1
0
2
4
6
8
10
12
Object Number

LfN

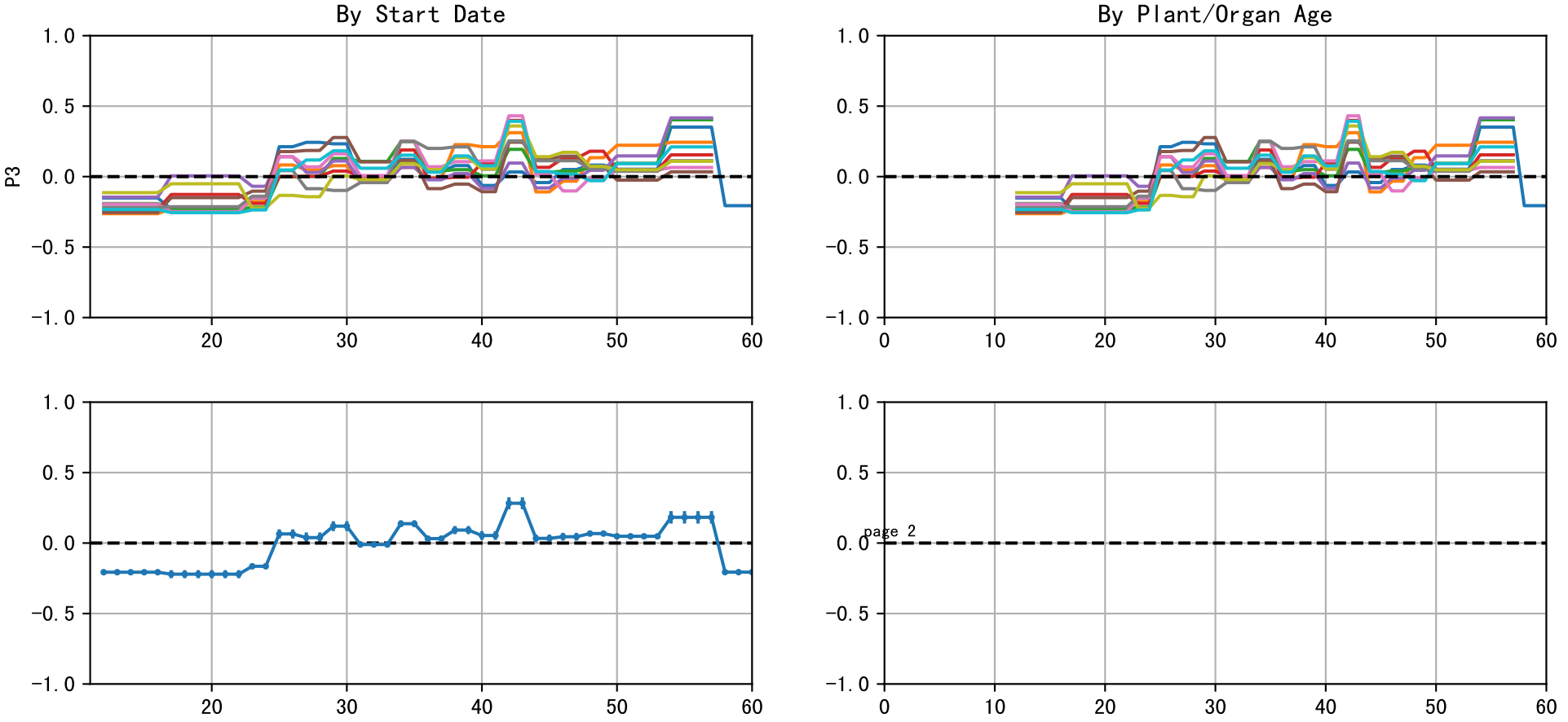

By Start Date
By Plant/Organ Age
P3
1.0
0.5
0.0
−0.5
−1.0
25
30
35
40
45
50
55
0
10
20
30
40
50
page 2

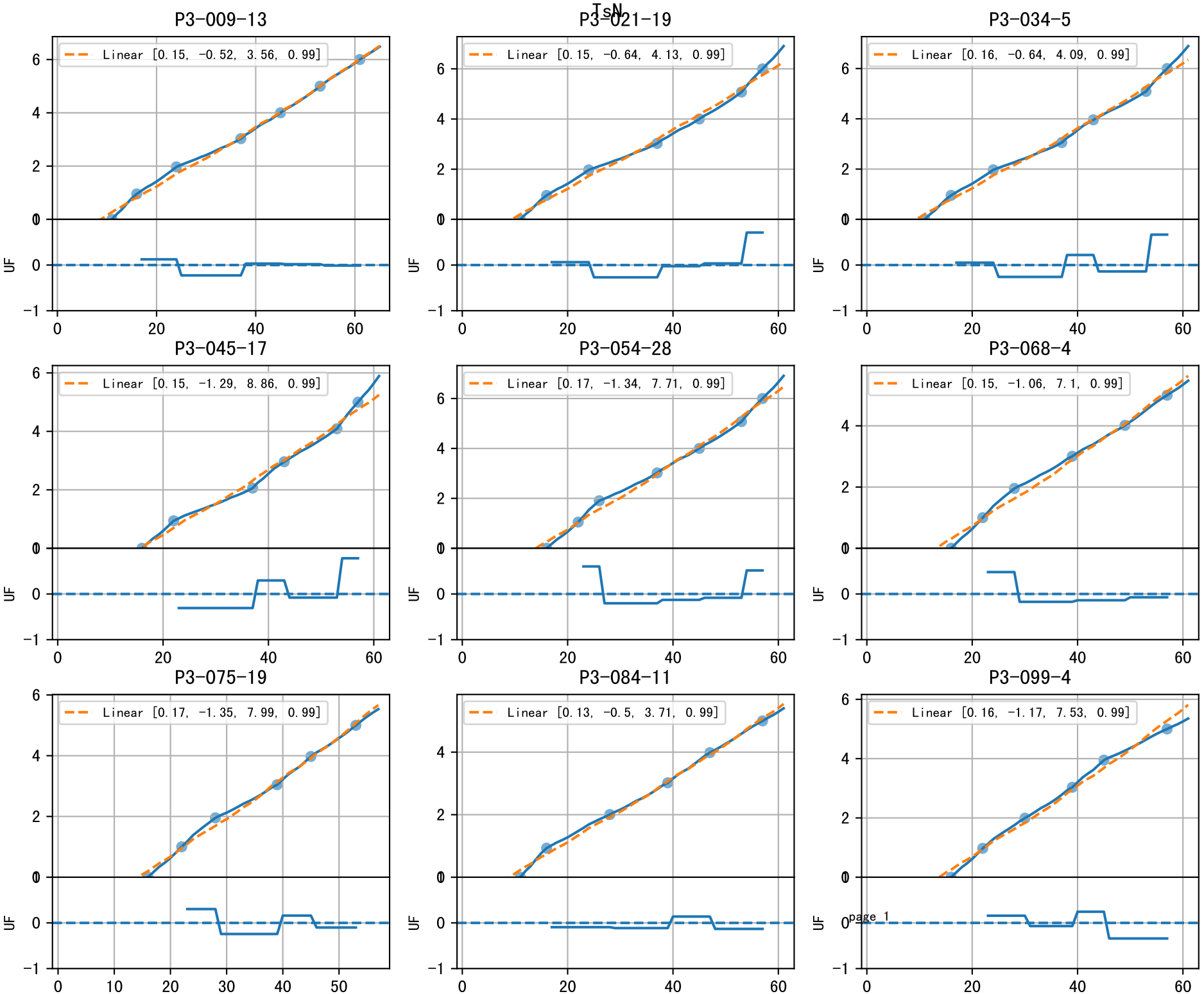

StH
P3-009-13
Linear [3.11, -9.47, 3.04, 0.99]
P3-021-19
Linear [3.28, -11.66, 3.56, 0.99]
P3-034-5
Linear [3.67, -13.85, 3.78, 0.99]
P3-045-17
Linear [3.55, -9.53, 2.69, 0.99]
P3-054-28
Linear [3.15, -6.45, 2.05, 1.0]
P3-068-4
Linear [3.33, -7.48, 2.25, 1.0]
P3-075-19
Linear [3.14, -10.28, 3.27, 0.99]
P3-084-11
Linear [3.37, -10.89, 3.23, 0.99]
P3-099-4
Linear [3.36, -10.16, 3.02, 0.99]
UF

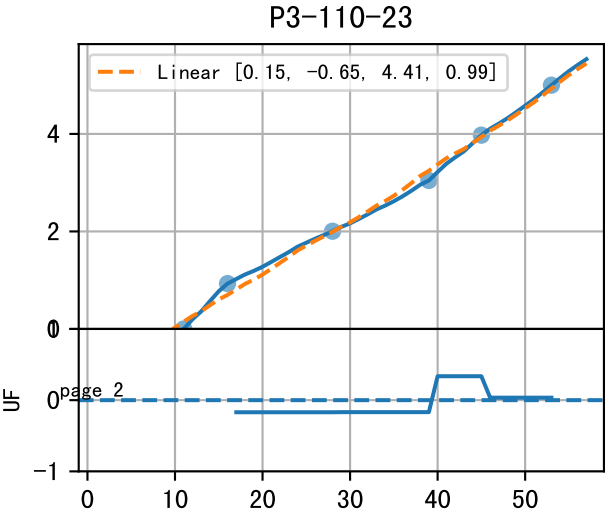

P3-110-23
Linear [3.53, -13.75, 3.89, 0.99]
150
100
50
0
UF
0
-1
0
20
40
60


a (Def=3 Set=3.35)
avg1=3.35~6% 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

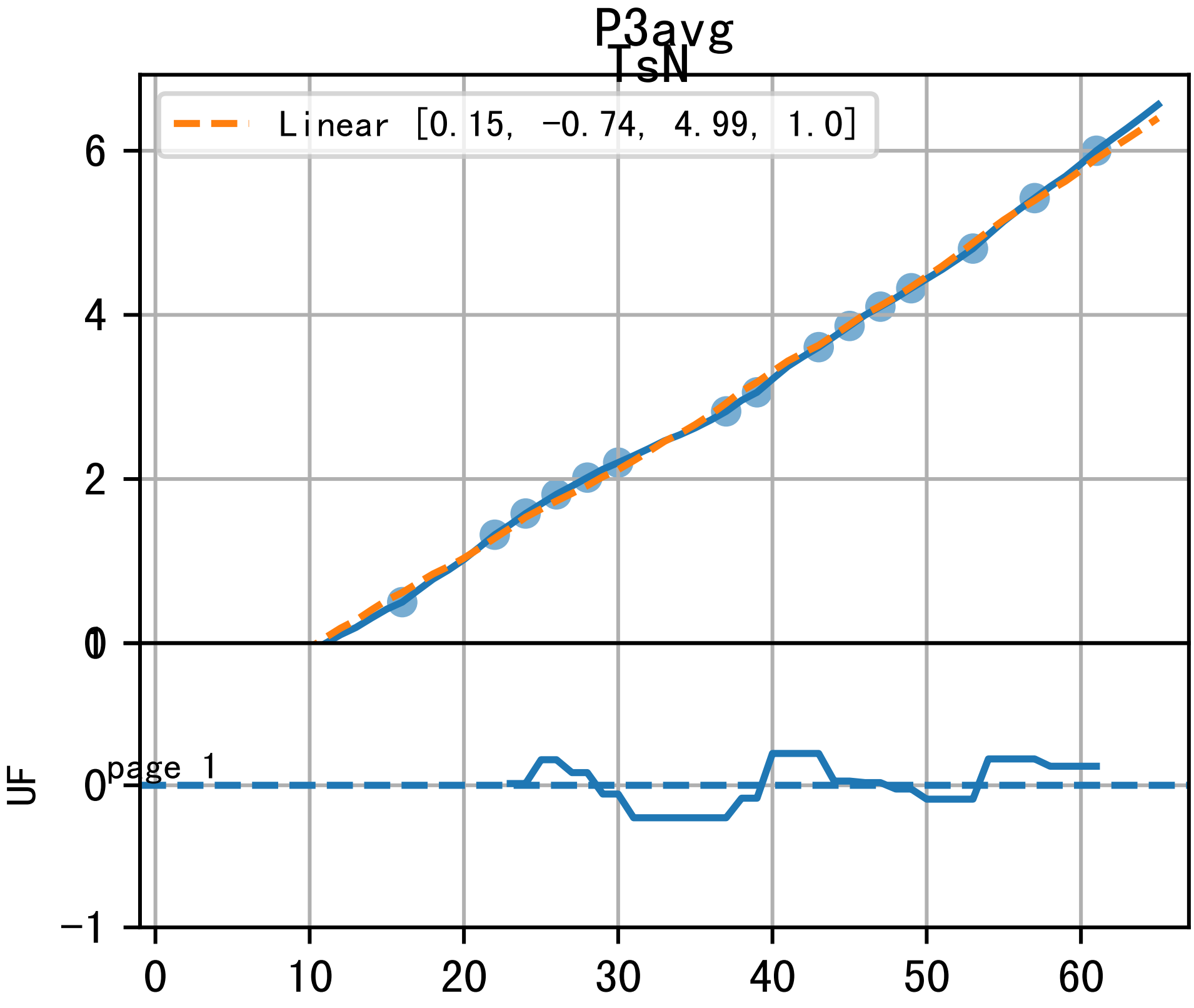

By Start Date
By Plant/Organ Age
P3
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
60
page 2

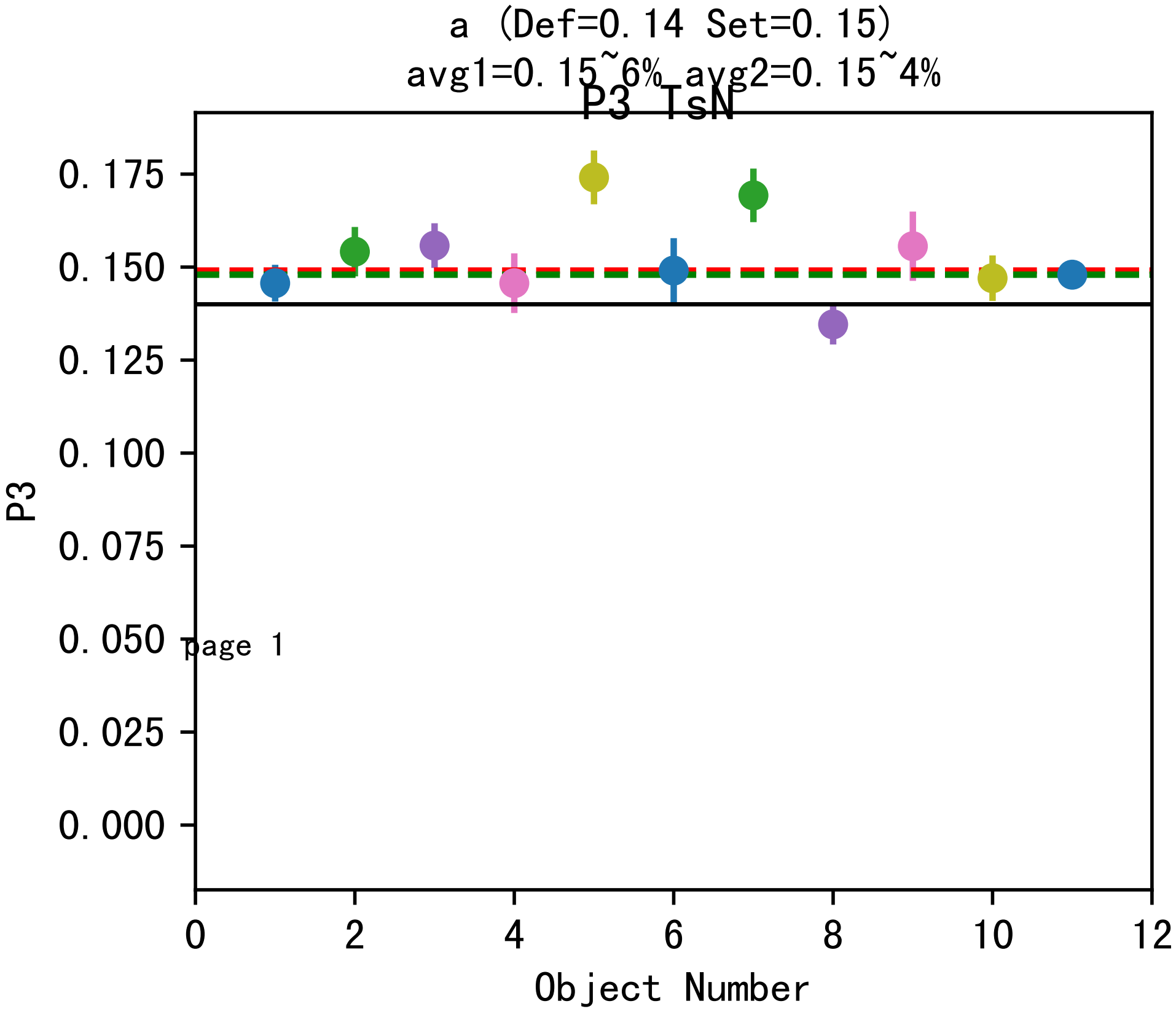

TsN
P3-009-13
Linear [0.15, -0.52, 3.56, 0.99]
P3-021-19
Linear [0.15, -0.64, 4.13, 0.99]
P3-034-5
Linear [0.16, -0.64, 4.09, 0.99]
P3-045-17
Linear [0.15, -1.29, 8.86, 0.99]
P3-054-28
Linear [0.17, -1.34, 7.71, 0.99]
P3-068-4
Linear [0.15, -1.06, 7.1, 0.99]
P3-075-19
Linear [0.17, -1.35, 7.99, 0.99]
P3-084-11
Linear [0.13, -0.5, 3.71, 0.99]
P3-099-4
Linear [0.16, -1.17, 7.53, 0.99]
UF



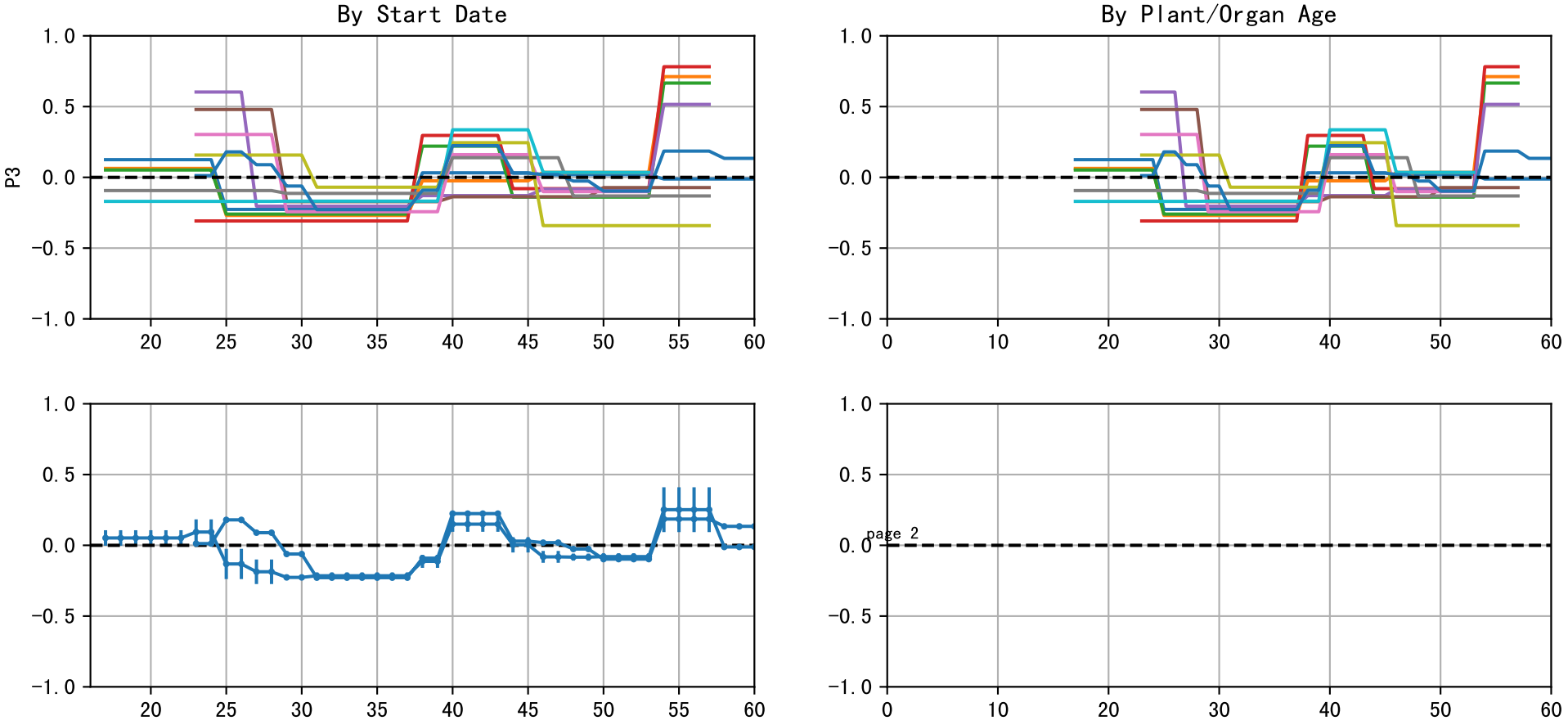
TsN

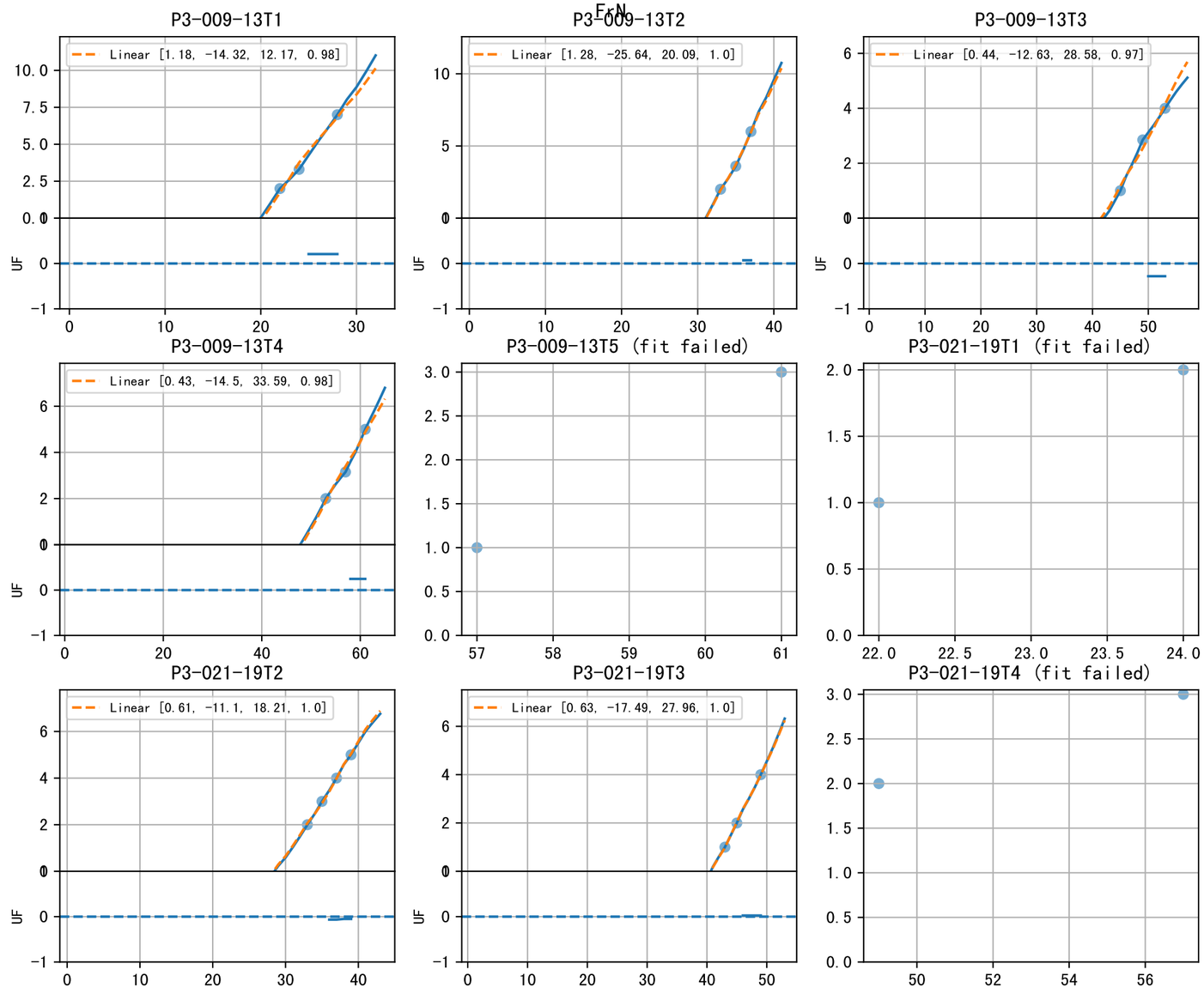
page 2

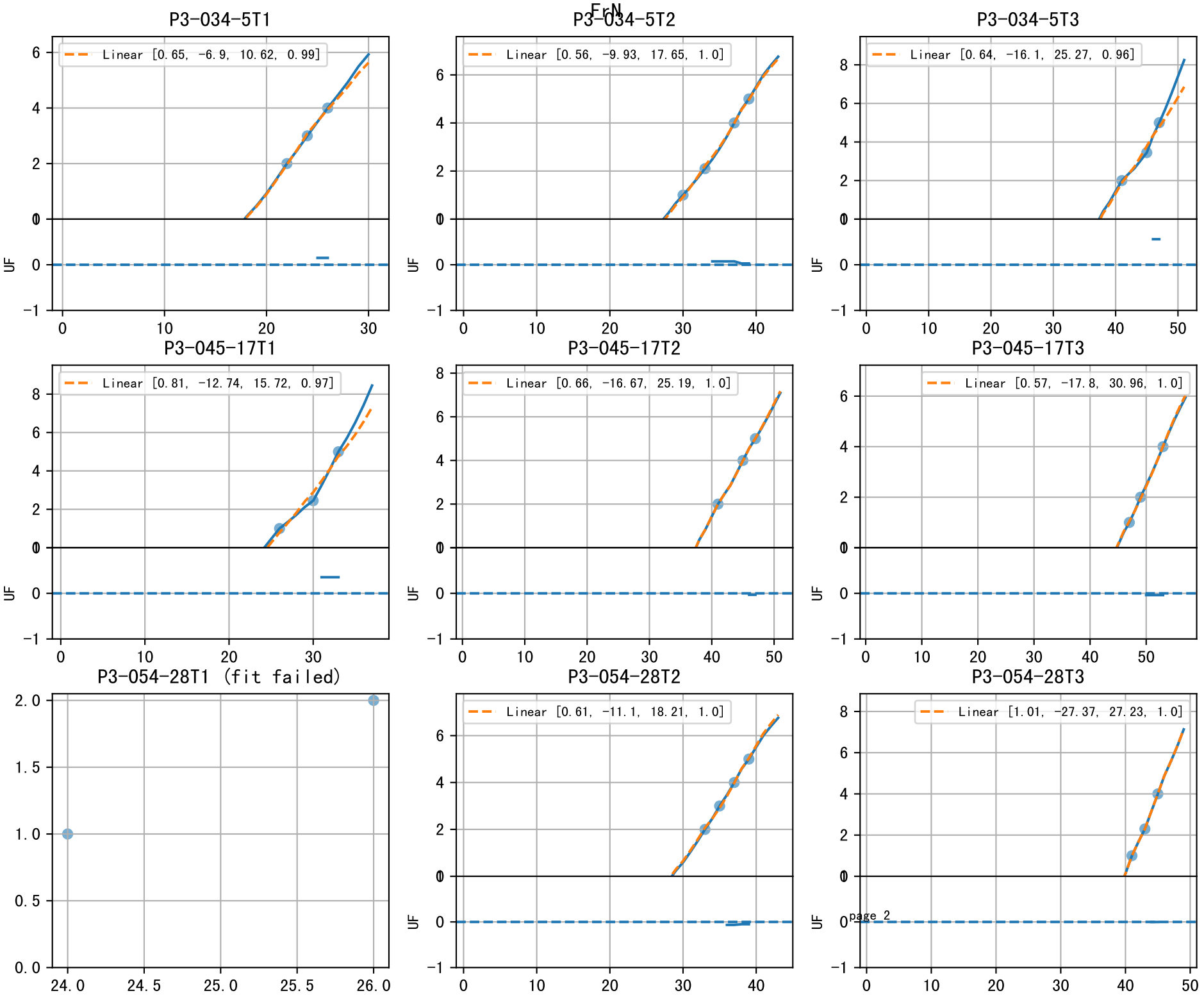

P3avg
TsN
Linear [0.15, -0.74, 4.99, 1.0]
6
4
2
0
0
-1
UF
0
10
20
30
40
50
60

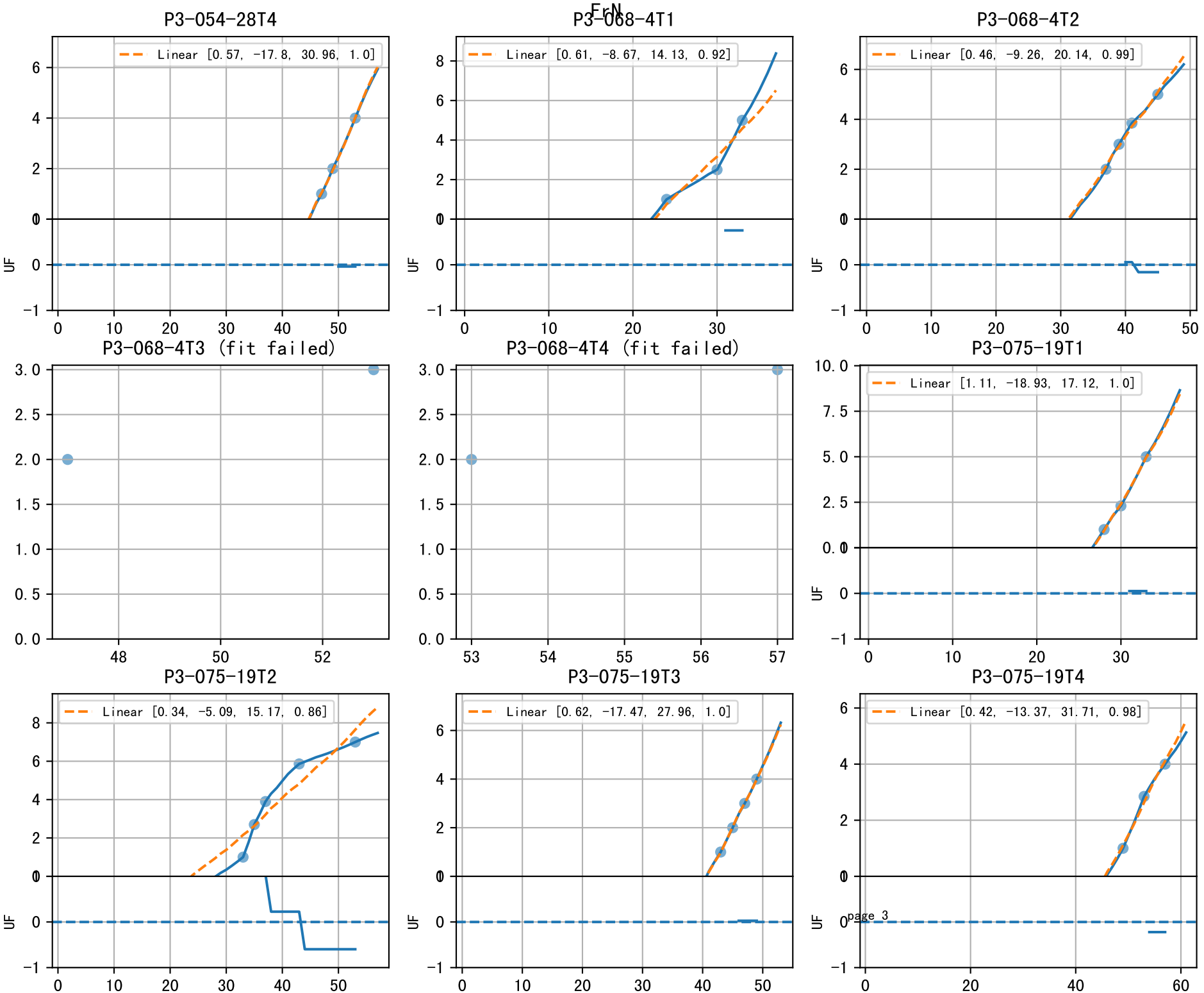

a (Def=0.14 Set=0.15)
avg1=0.15~6% avg2=0.15~4%
P3 TsN
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
P3
page 1
0
2
4
6
8
10
12
Object Number

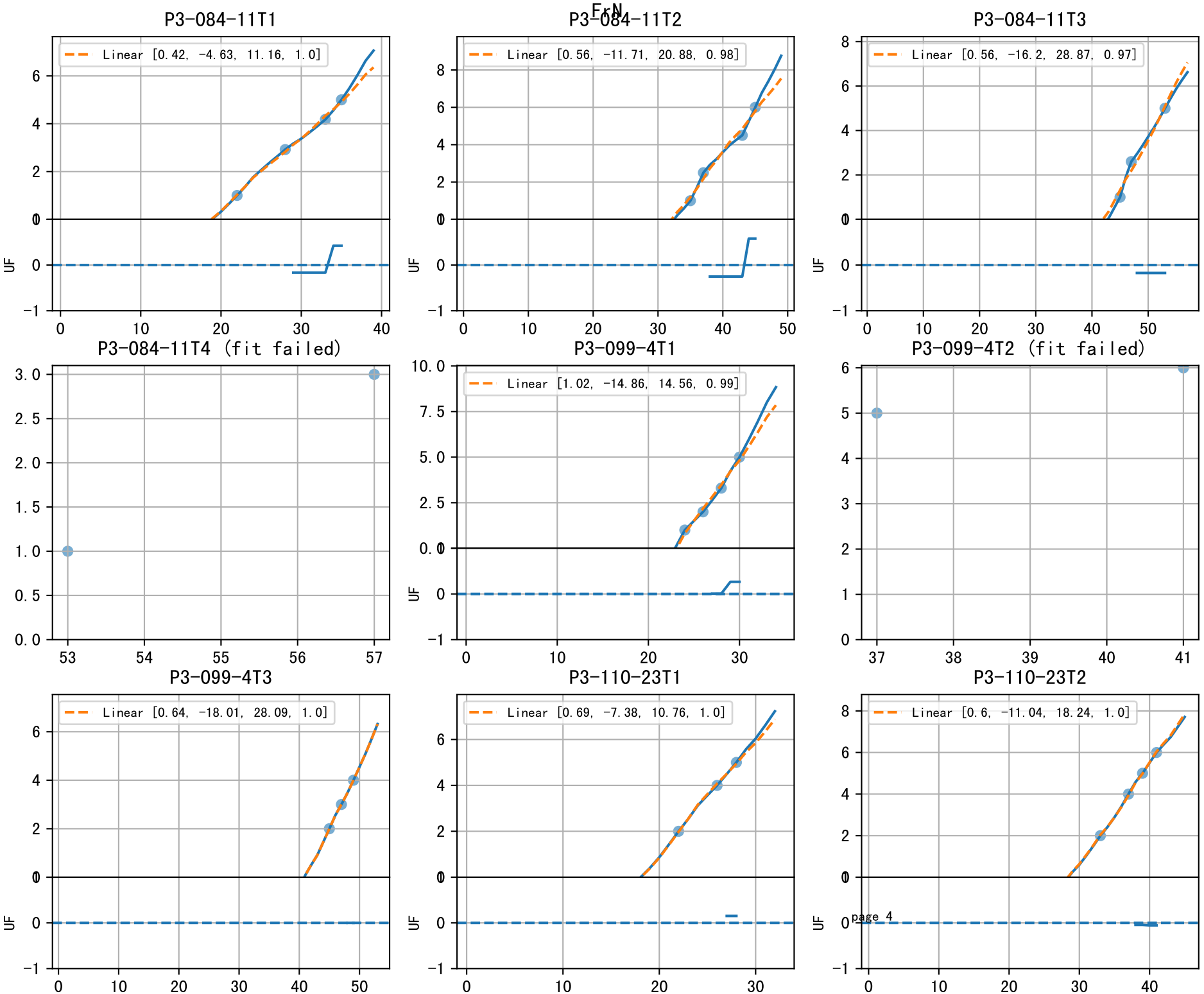
TsN

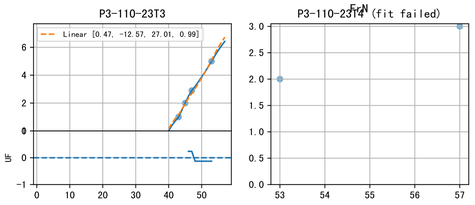

By Start Date
By Plant/Organ Age
P3
1.0
0.5
0.0
−0.5
−1.0
20
25
30
35
40
45
50
55
60
0
10
page 2

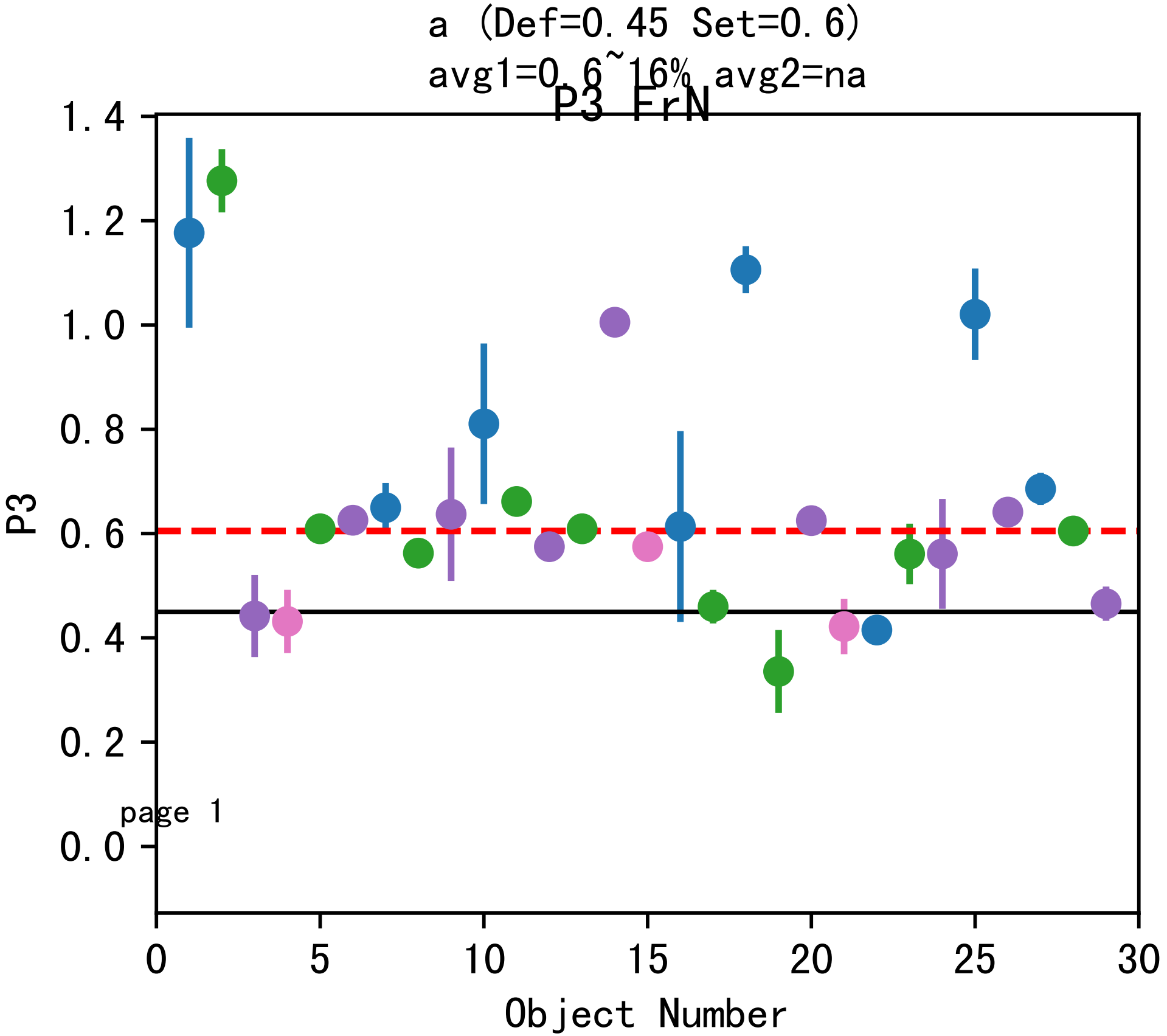

P3-009-13T1
Linear [1.18, -14.32, 12.17, 0.98]
P3-009-13T2
Linear [1.28, -25.64, 20.09, 1.0]
P3-009-13T3
Linear [0.44, -12.63, 28.58, 0.97]
P3-009-13T4
Linear [0.43, -14.5, 33.59, 0.98]
P3-009-13T5 (fit failed)
P3-021-19T1 (fit failed)
P3-021-19T2
Linear [0.61, -11.1, 18.21, 1.0]
P3-021-19T3
Linear [0.63, -17.49, 27.96, 1.0]
P3-021-19T4 (fit failed)
UF


FrN
P3-034-5T1
Linear [0.65, -6.9, 10.62, 0.99]
P3-034-5T2
Linear [0.56, -9.93, 17.65, 1.0]
P3-034-5T3
Linear [0.64, -16.1, 25.27, 0.96]
P3-045-17T1
Linear [0.81, -12.74, 15.72, 0.97]
P3-045-17T2
Linear [0.66, -16.67, 25.19, 1.0]
P3-045-17T3
Linear [0.57, -17.8, 30.96, 1.0]
P3-054-28T1 (fit failed)
P3-054-28T2
Linear [0.61, -11.1, 18.21, 1.0]
P3-054-28T3
Linear [1.01, -27.37, 27.23, 1.0]
UF
page 2

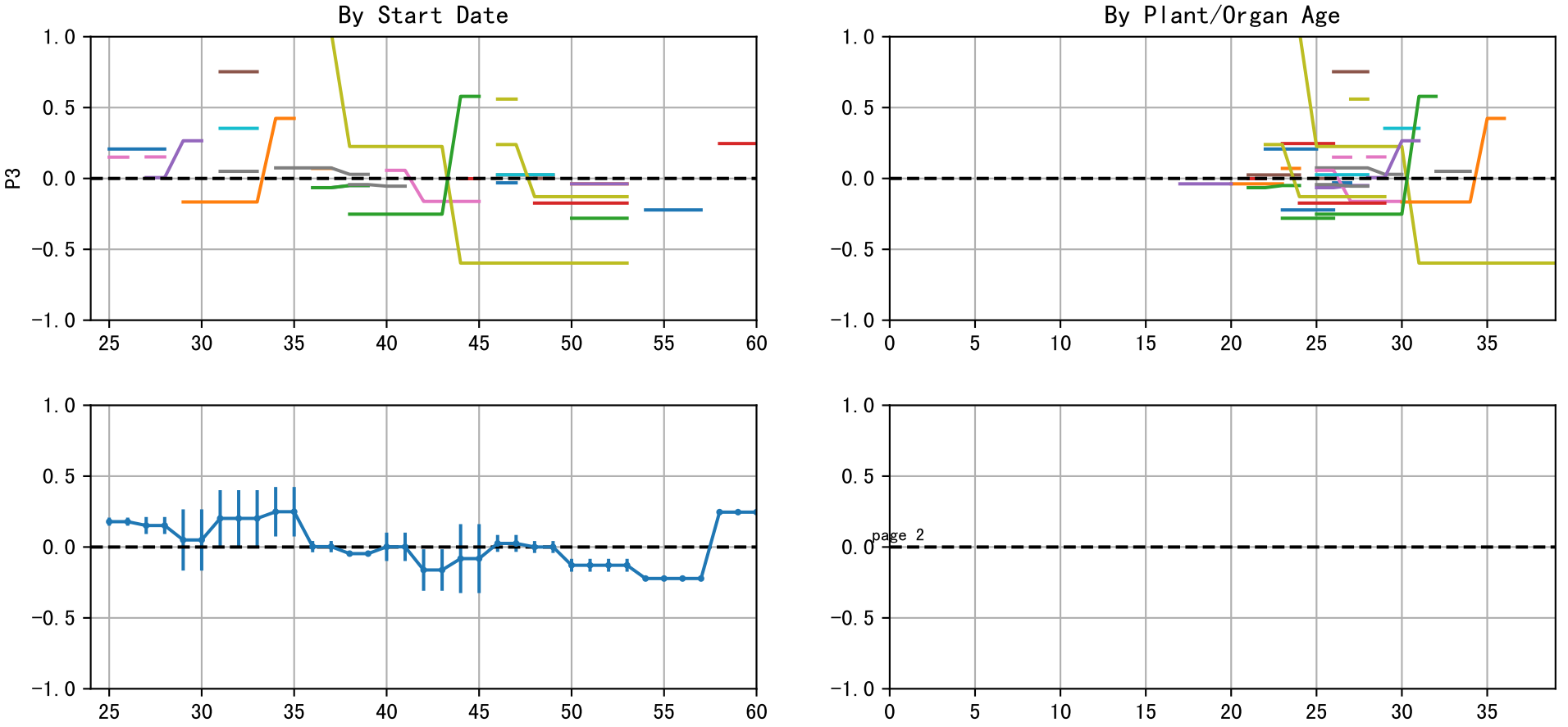

FrN
P3-054-28T4
Linear [0.57, -17.8, 30.96, 1.0]
P3-068-4T1
Linear [0.61, -8.67, 14.13, 0.92]
P3-068-4T2
Linear [0.46, -9.26, 20.14, 0.99]
P3-068-4T3 (fit failed)
P3-068-4T4 (fit failed)
P3-075-19T1
Linear [1.11, -18.93, 17.12, 1.0]
P3-075-19T2
Linear [0.34, -5.09, 15.17, 0.86]
P3-075-19T3
Linear [0.62, -17.47, 27.96, 1.0]
P3-075-19T4
Linear [0.42, -13.37, 31.71, 0.98]
UF

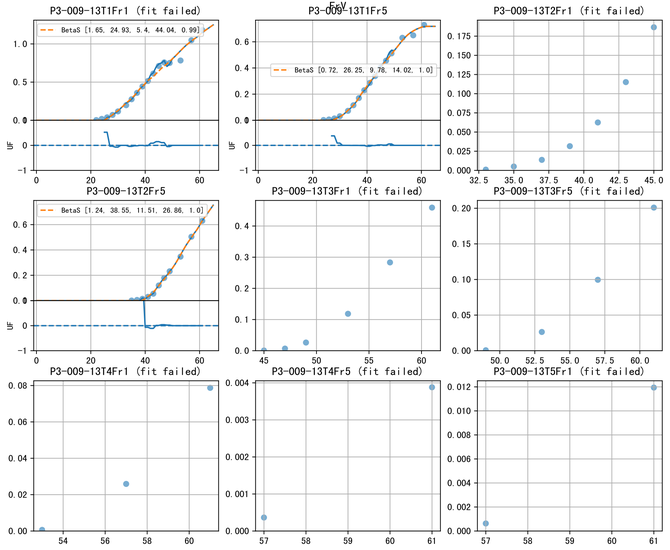

FrN
P3-084-11T1
Linear [0.42, -4.63, 11.16, 1.0]
P3-084-11T2
Linear [0.56, -11.71, 20.88, 0.98]
P3-084-11T3
Linear [0.56, -16.2, 28.87, 0.97]
P3-084-11T4 (fit failed)
P3-099-4T1
Linear [1.02, -14.86, 14.56, 0.99]
P3-099-4T2 (fit failed)
P3-099-4T3
Linear [0.64, -18.01, 28.09, 1.0]
P3-110-23T1
Linear [0.69, -7.38, 10.76, 1.0]
P3-110-23T2
Linear [0.6, -11.04, 18.24, 1.0]
UF

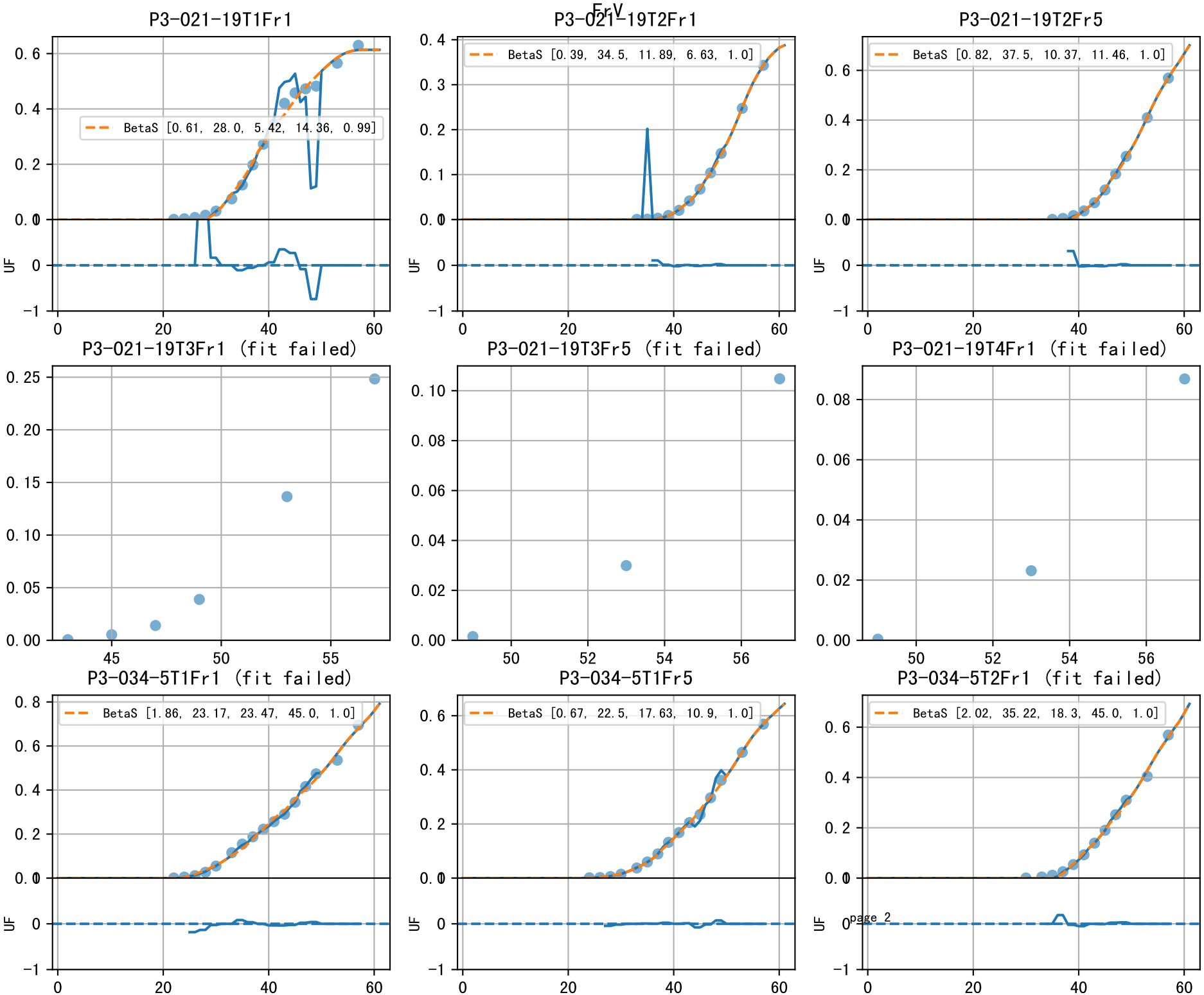

P3-110-23T3
Linear [0.47, -12.57, 27.01, 0.99]
P3-110-23T4 (fit failed)
FrN
UF

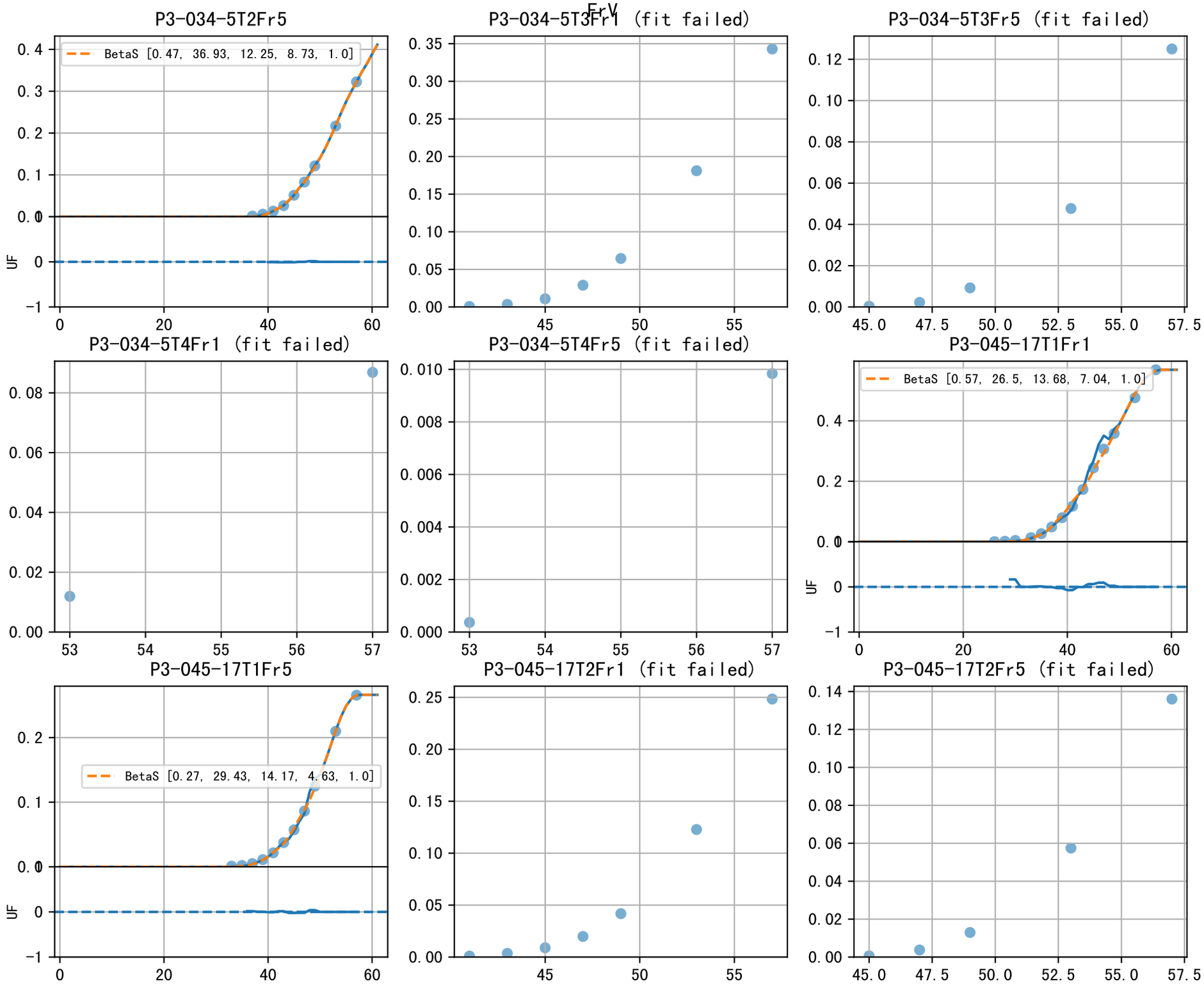

a (Def=0.45 Set=0.6)
avg1=0.6~16% avg2=na
P3 FrN
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
P3
page 1
0
5
10
15
20
25
30
Object Number

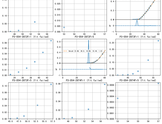
FrN

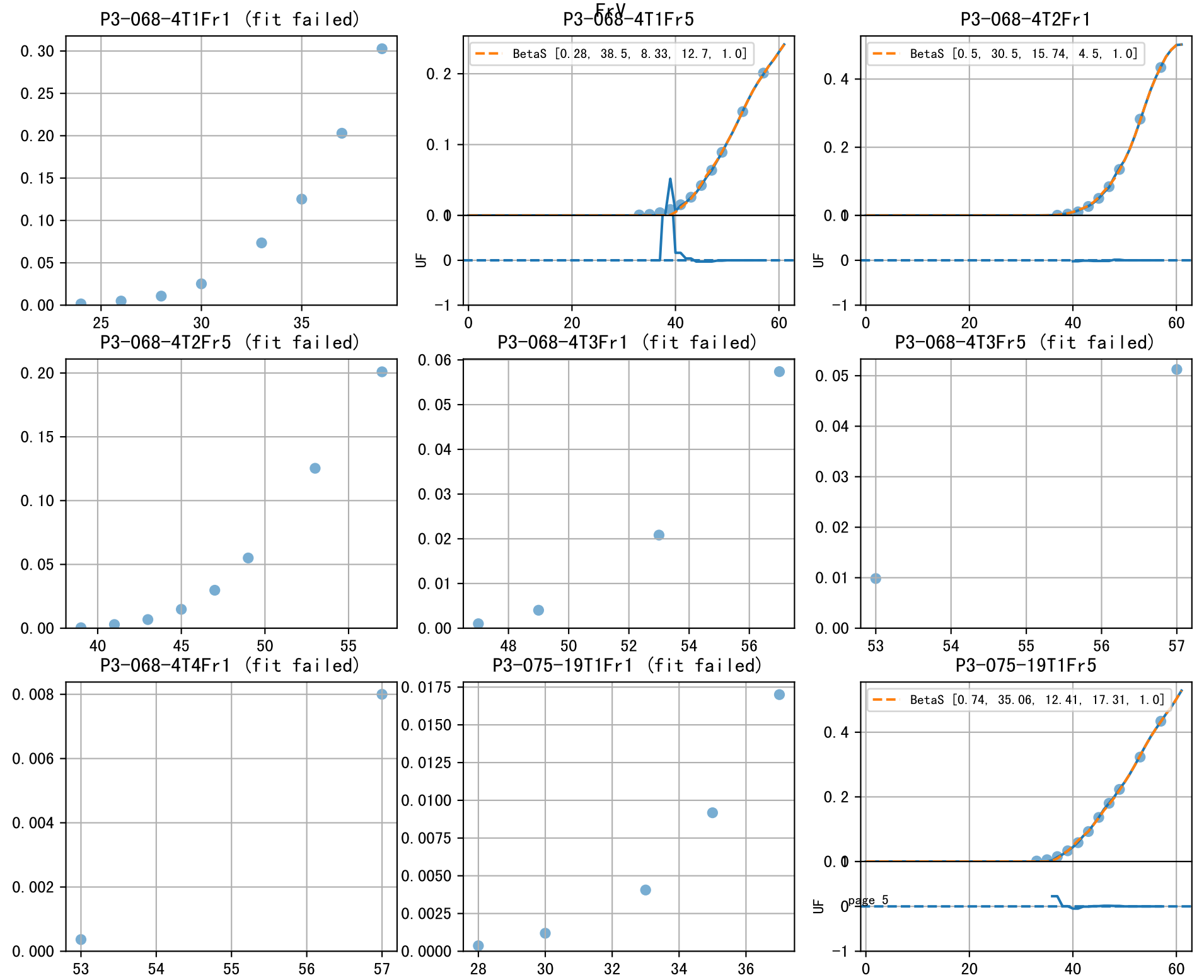

By Start Date
By Plant/Organ Age
P3
1.0
0.5
0.0
−0.5
−1.0
25
30
35
40
45
50
55
60
0
5
10
15
20
25
30
35
page 2

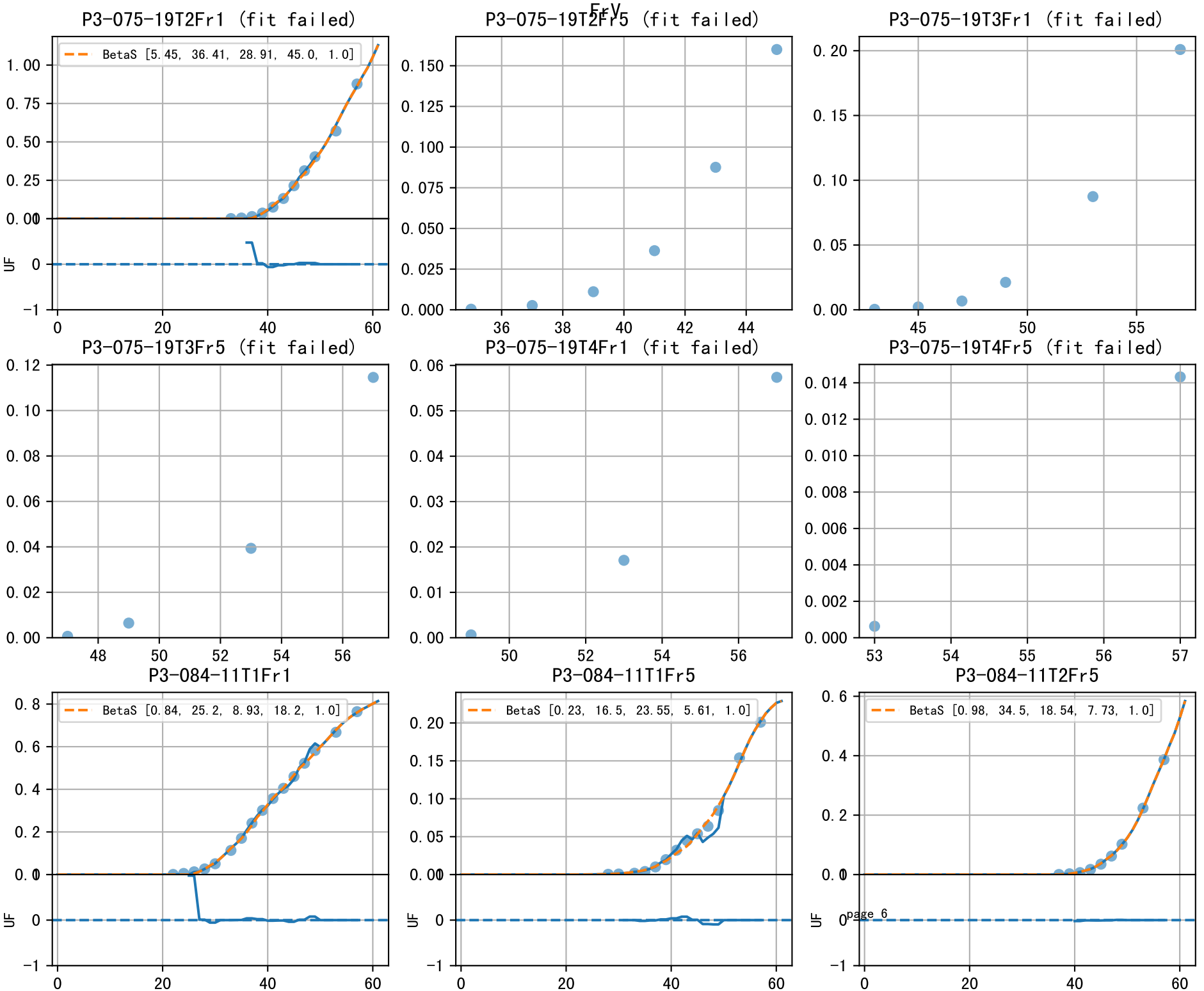

P3-009-13T1Fr1 (fit failed)
BetaS [1.65, 24.93, 5.4, 44.04, 0.99]
P3-009-13T1Fr5
BetaS [0.72, 26.25, 9.78, 14.02, 1.0]
P3-009-13T2Fr1 (fit failed)
P3-009-13T2Fr5
BetaS [1.24, 38.55, 11.51, 26.86, 1.0]
P3-009-13T3Fr1 (fit failed)
P3-009-13T3Fr5 (fit failed)
P3-009-13T4Fr1 (fit failed)
P3-009-13T4Fr5 (fit failed)
P3-009-13T5Fr1 (fit failed)
UF
E keV

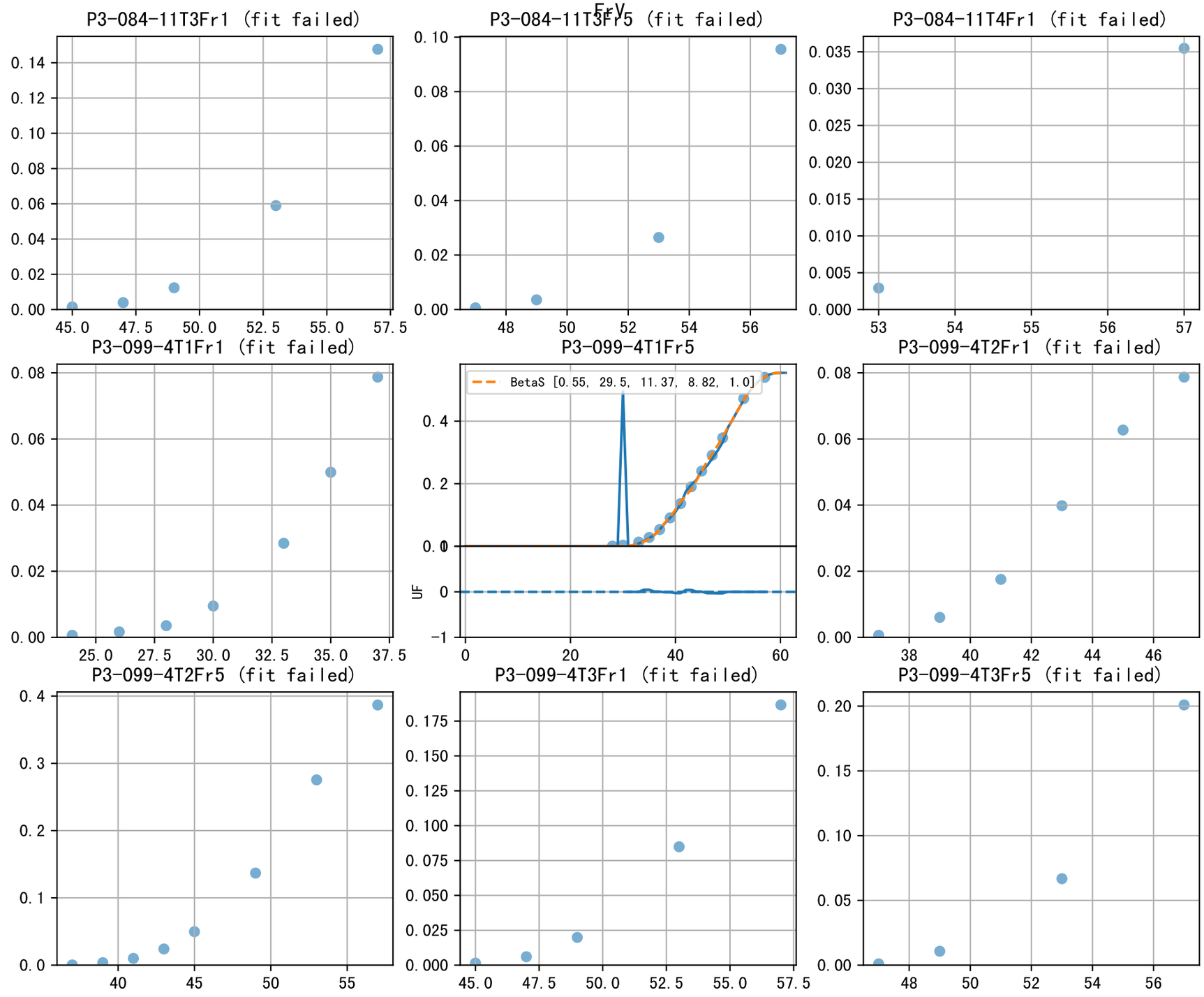

FrV
P3-021-19T1Fr1
BetaS [0.61, 28.0, 5.42, 14.36, 0.99]
P3-021-19T2Fr1
BetaS [0.39, 34.5, 11.89, 6.63, 1.0]
P3-021-19T2Fr5
BetaS [0.82, 37.5, 10.37, 11.46, 1.0]
P3-021-19T3Fr1 (fit failed)
P3-021-19T3Fr5 (fit failed)
P3-021-19T4Fr1 (fit failed)
P3-034-5T1Fr1 (fit failed)
BetaS [1.86, 23.17, 23.47, 45.0, 1.0]
P3-034-5T1Fr5
BetaS [0.67, 22.5, 17.63, 10.9, 1.0]
P3-034-5T2Fr1 (fit failed)
BetaS [2.02, 35.22, 18.3, 45.0, 1.0]
UF

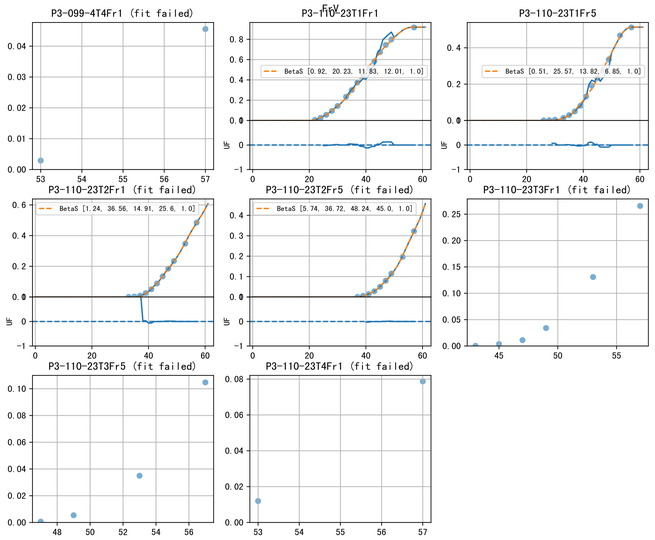

FrV
P3-034-5T2Fr5
BetaS [0.47, 36.93, 12.25, 8.73, 1.0]
P3-034-5T3Fr1 (fit failed)
P3-034-5T3Fr5 (fit failed)
P3-034-5T4Fr1 (fit failed)
P3-034-5T4Fr5 (fit failed)
P3-045-17T1Fr1
BetaS [0.57, 26.5, 13.68, 7.04, 1.0]
P3-045-17T1Fr5
BetaS [0.27, 29.43, 14.17, 4.63, 1.0]
P3-045-17T2Fr1 (fit failed)
P3-045-17T2Fr5 (fit failed)
UF

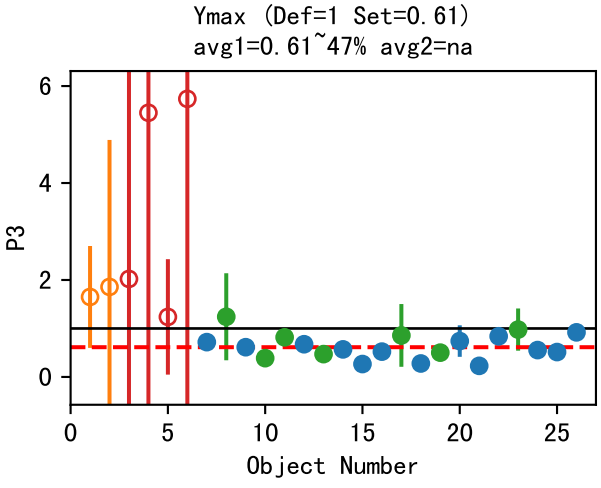


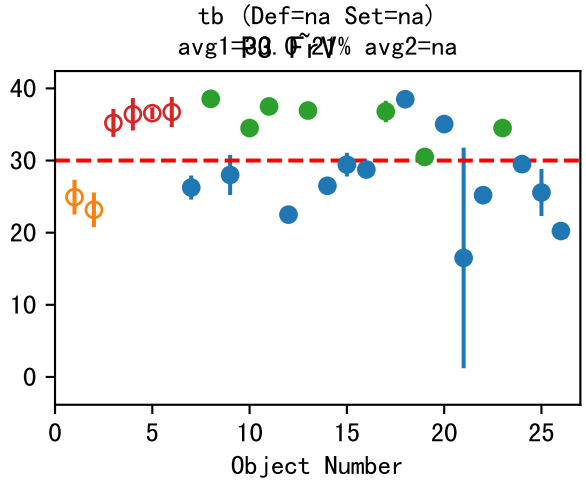

FrV
P3-068-4T1Fr1 (fit failed)
P3-068-4T1Fr5
BetaS [0.28, 38.5, 8.33, 12.7, 1.0]
UF
P3-068-4T2Fr1
BetaS [0.5, 30.5, 15.74, 4.5, 1.0]
UF
P3-068-4T2Fr5 (fit failed)
P3-068-4T3Fr1 (fit failed)
P3-068-4T3Fr5 (fit failed)
P3-068-4T4Fr1 (fit failed)
P3-075-19T1Fr1 (fit failed)
P3-075-19T1Fr5
BetaS [0.74, 35.06, 12.41, 17.31, 1.0]
UF

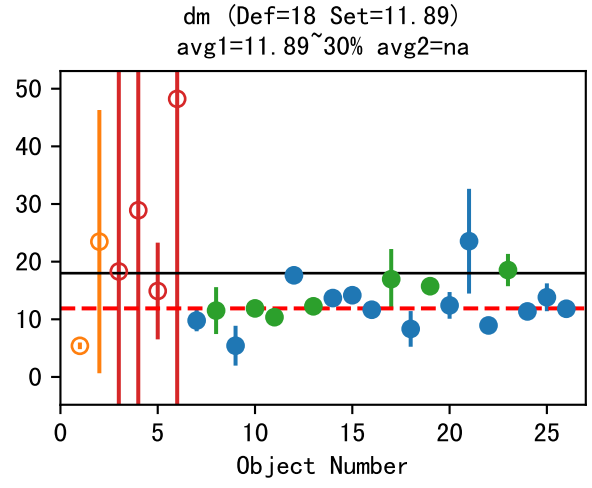

FrV
P3-075-19T2Fr1 (fit failed)
BetaS [5.45, 36.41, 28.91, 45.0, 1.0]
P3-075-19T2Fr5 (fit failed)
P3-075-19T3Fr1 (fit failed)
P3-075-19T3Fr5 (fit failed)
P3-075-19T4Fr1 (fit failed)
P3-075-19T4Fr5 (fit failed)
P3-084-11T1Fr1
BetaS [0.84, 25.2, 8.93, 18.2, 1.0]
P3-084-11T1Fr5
BetaS [0.23, 16.5, 23.55, 5.61, 1.0]
P3-084-11T2Fr5
BetaS [0.98, 34.5, 18.54, 7.73, 1.0]
UF

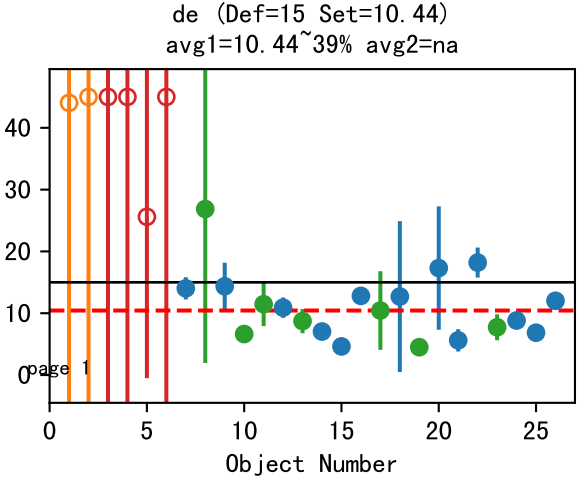

FrV
P3-084-11T3Fr1 (fit failed)
P3-084-11T3Fr5 (fit failed)
P3-084-11T4Fr1 (fit failed)
P3-099-4T1Fr1 (fit failed)
P3-099-4T1Fr5
BetaS [0.55, 29.5, 11.37, 8.82, 1.0]
UF
P3-099-4T2Fr1 (fit failed)
P3-099-4T2Fr5 (fit failed)
P3-099-4T3Fr1 (fit failed)
P3-099-4T3Fr5 (fit failed)


FcV
P3-099-4T4Fr1 (fit failed)
P3-110-23T1Fr1
BetaS [0.92, 20.23, 11.83, 12.01, 1.0]
P3-110-23T1Fr5
BetaS [0.51, 25.57, 13.82, 6.85, 1.0]
P3-110-23T2Fr1 (fit failed)
BetaS [1.24, 36.56, 14.91, 25.6, 1.0]
P3-110-23T2Fr5 (fit failed)
BetaS [5.74, 36.72, 48.24, 45.0, 1.0]
P3-110-23T3Fr1 (fit failed)
P3-110-23T3Fr5 (fit failed)
P3-110-23T4Fr1 (fit failed)
UF

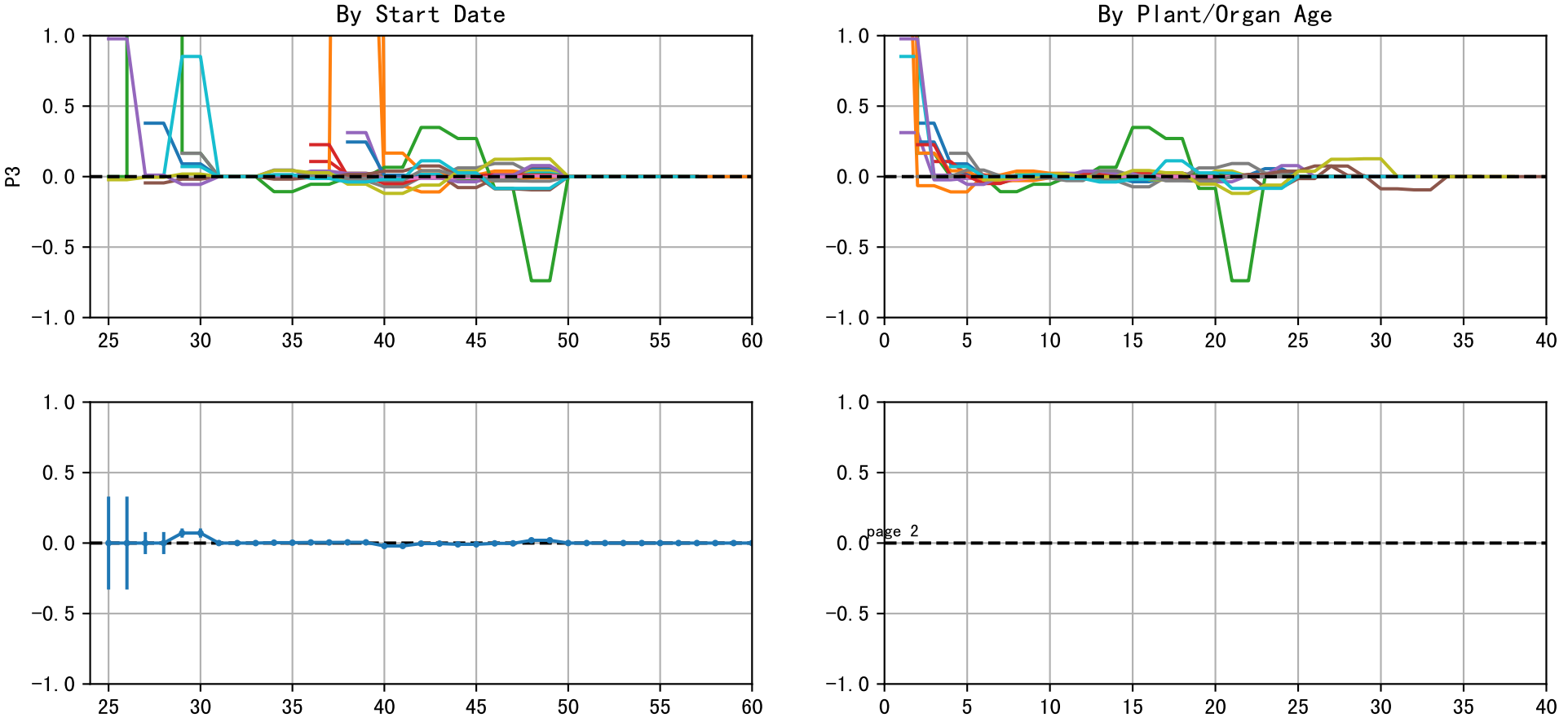

Ymax (Def=1 Set=0.61)
avg1=0.61~47% avg2=na
P3
Object Number

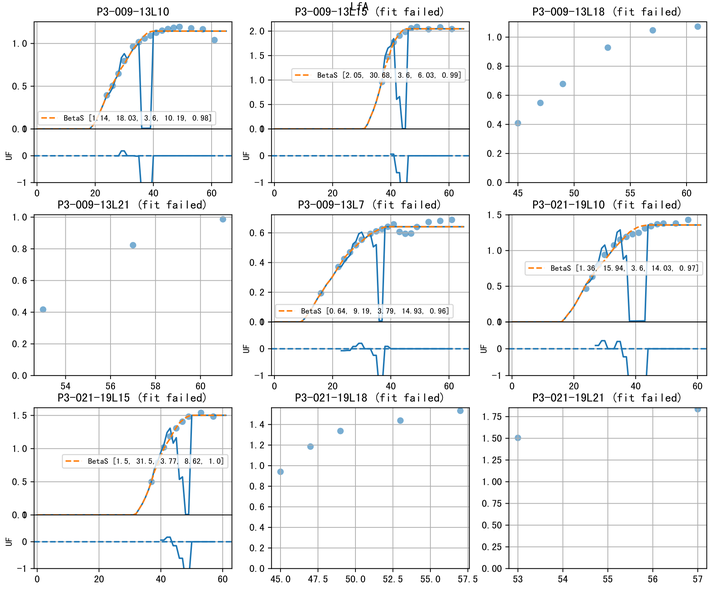

tb (Def=na Set=na)
avg1=30.0~27% avg2=na
Object Number

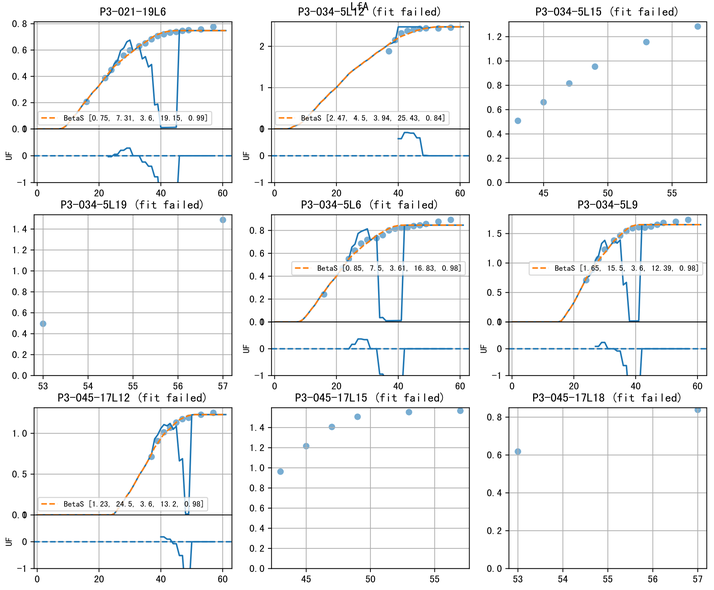

dm (Def=18 Set=11.89)
avg1=11.89~30% avg2=na
Object Number

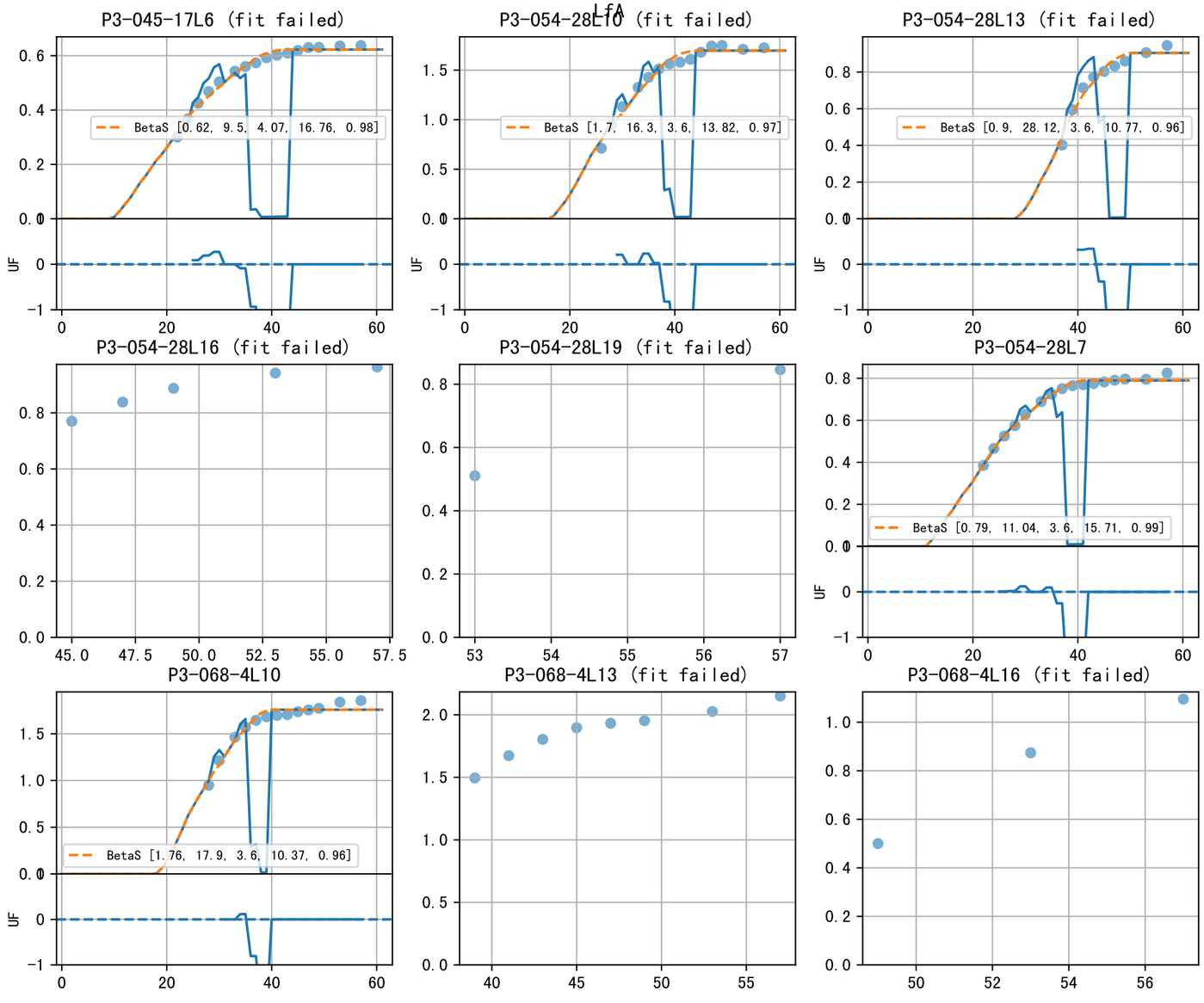

de (Def=15 Set=10.44)
avg1=10.44~39% avg2=na
Object Number

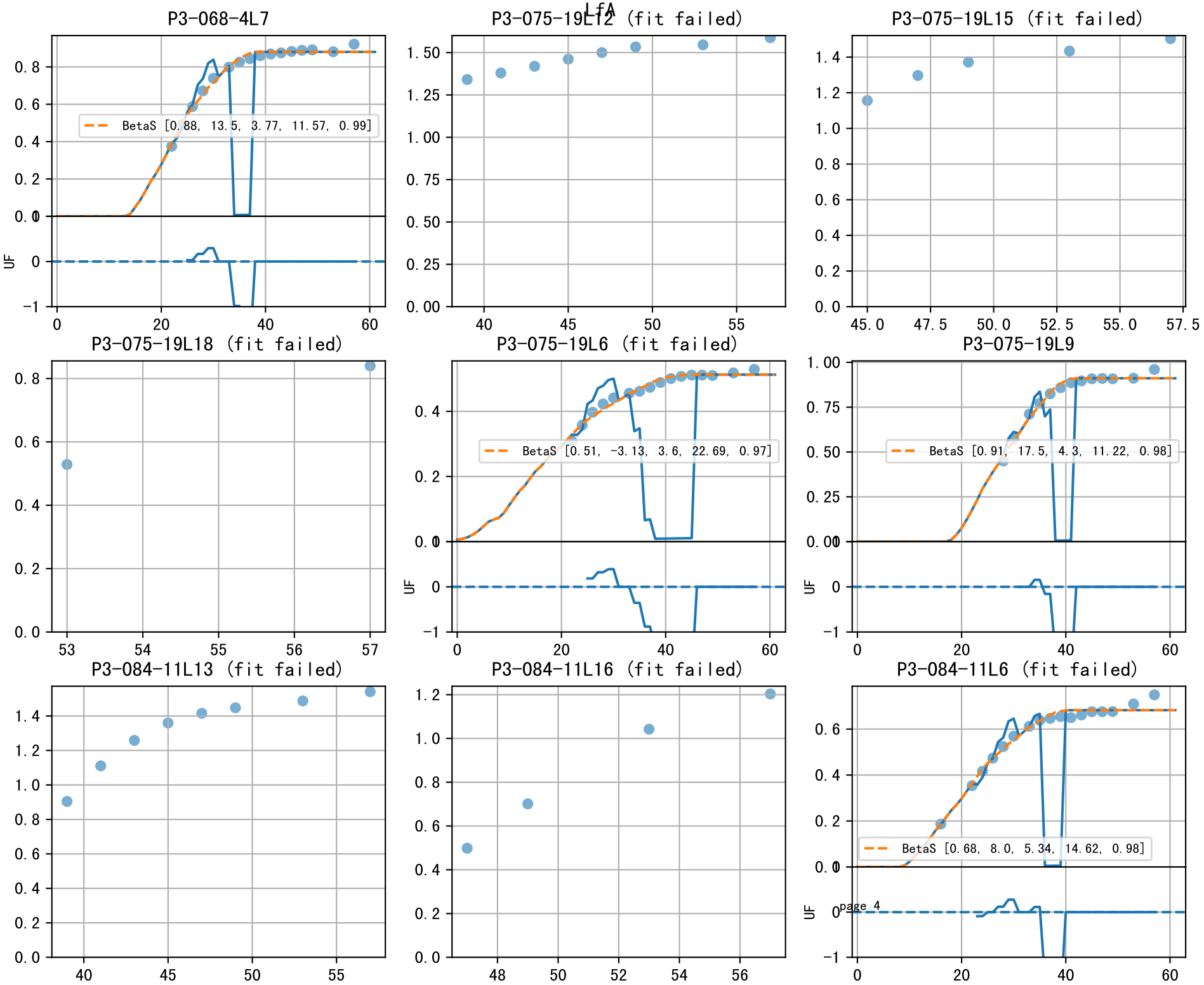
FrV

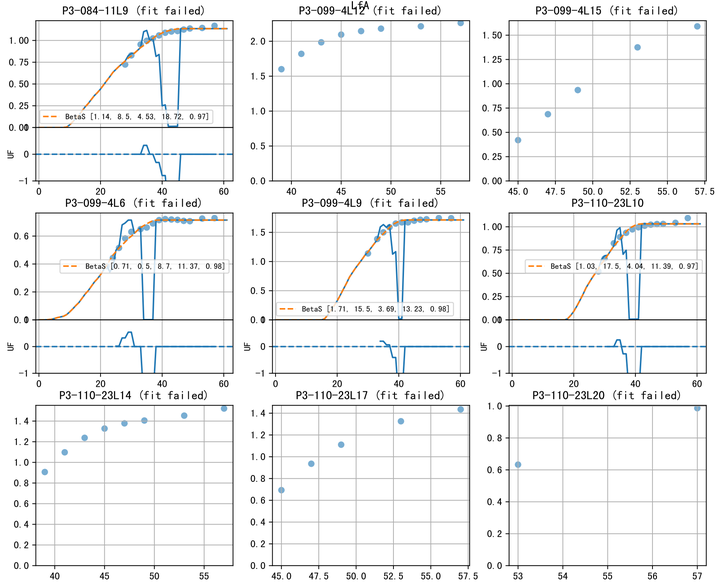

By Start Date
By Plant/Organ Age
P3
1.0
0.5
0.0
−0.5
−1.0
25
30
35
40
45
50
55
60
0
5
10
15
20
25
30
35
40
page 2

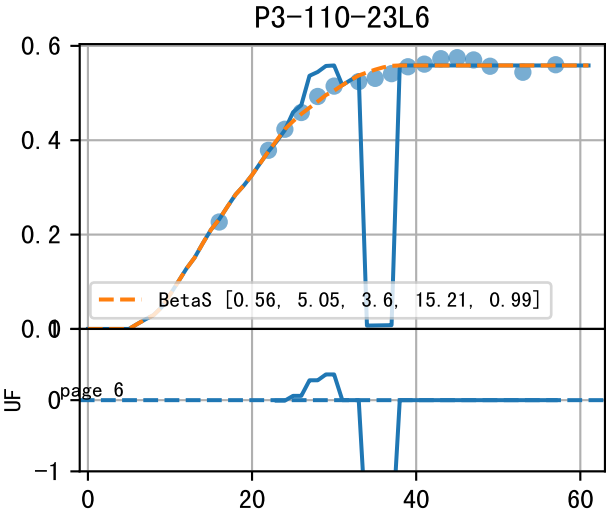

LfA
P3-009-13L10
BetaS [1.14, 18.03, 3.6, 10.19, 0.98]
P3-009-13L15 (fit failed)
BetaS [2.05, 30.68, 3.6, 6.03, 0.99]
P3-009-13L18 (fit failed)
P3-009-13L21 (fit failed)
P3-009-13L7 (fit failed)
BetaS [0.64, 9.19, 3.79, 14.93, 0.96]
P3-021-19L10 (fit failed)
BetaS [1.36, 15.94, 3.6, 14.03, 0.97]
P3-021-19L15 (fit failed)
BetaS [1.5, 31.5, 3.77, 8.62, 1.0]
P3-021-19L18 (fit failed)
P3-021-19L21 (fit failed)
UF

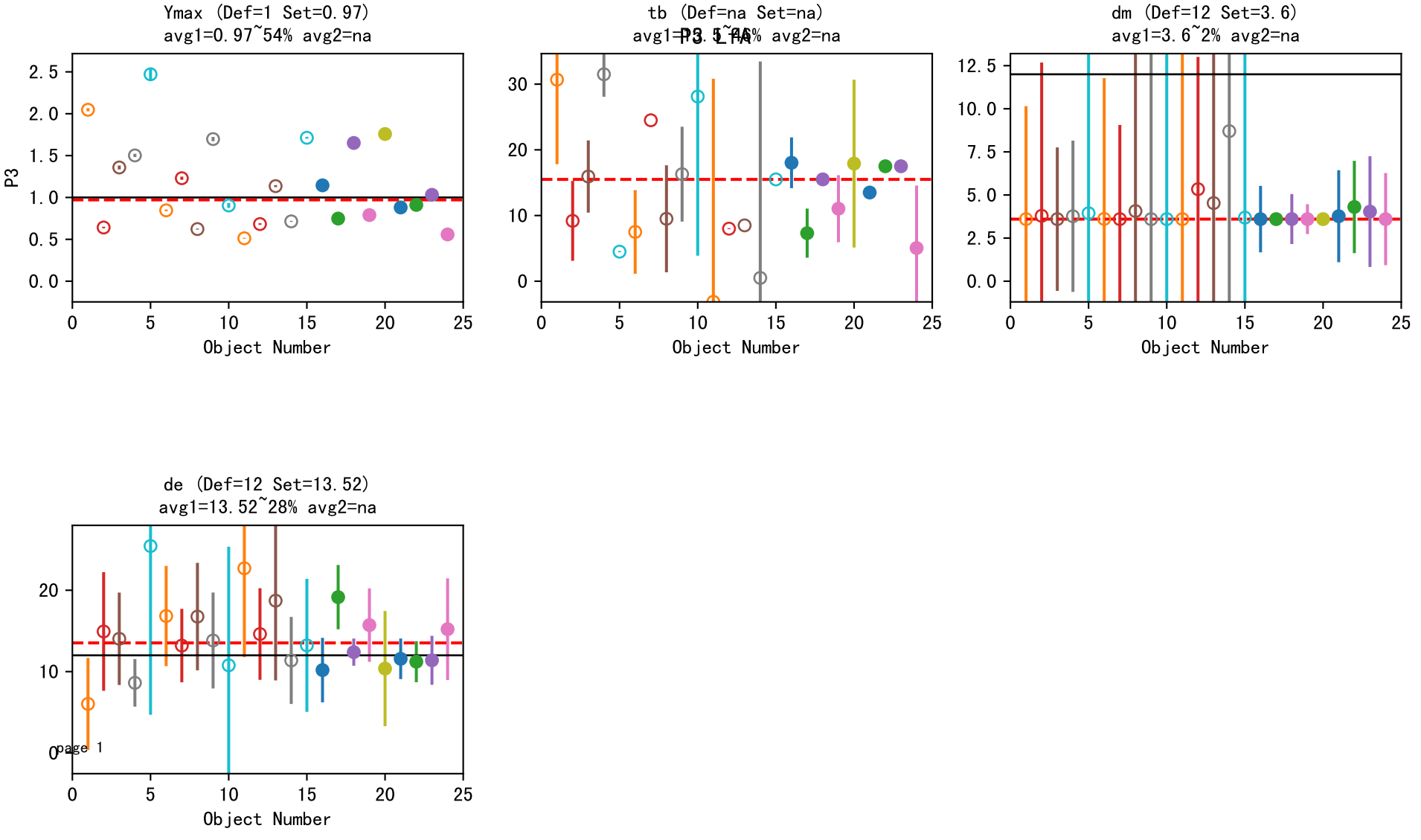

L6A
P3-021-19L6
BetaS [0.75, 7.31, 3.6, 19.15, 0.99]
P3-034-5L12 (fit failed)
BetaS [2.47, 4.5, 3.94, 25.43, 0.84]
P3-034-5L15 (fit failed)
P3-034-5L19 (fit failed)
P3-034-5L6 (fit failed)
BetaS [0.85, 7.5, 3.61, 16.83, 0.98]
P3-034-5L9
BetaS [1.65, 15.5, 3.6, 12.39, 0.98]
P3-045-17L12 (fit failed)
BetaS [1.23, 24.5, 3.6, 13.2, 0.98]
P3-045-17L15 (fit failed)
P3-045-17L18 (fit failed)
UF


LfA
P3-045-17L6 (fit failed)
BetaS [0.62, 9.5, 4.07, 16.76, 0.98]
P3-054-28L10 (fit failed)
BetaS [1.7, 16.3, 3.6, 13.82, 0.97]
P3-054-28L13 (fit failed)
BetaS [0.9, 28.12, 3.6, 10.77, 0.96]
P3-054-28L16 (fit failed)
P3-054-28L19 (fit failed)
P3-054-28L7
BetaS [0.79, 11.04, 3.6, 15.71, 0.99]
P3-068-4L10
BetaS [1.76, 17.9, 3.6, 10.37, 0.96]
P3-068-4L13 (fit failed)
P3-068-4L16 (fit failed)
UF

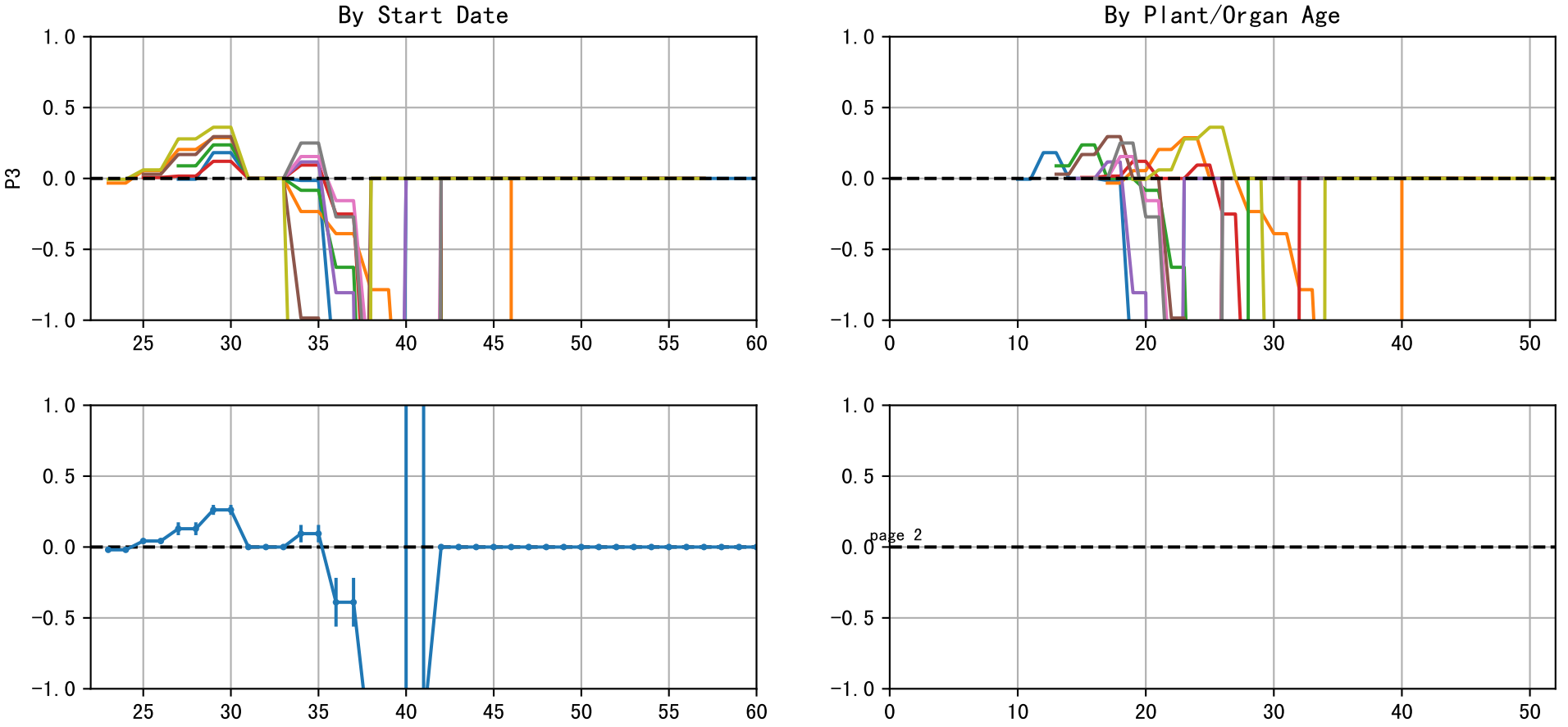

LfA
P3-068-4L7
BetaS [0.88, 13.5, 3.77, 11.57, 0.99]
UF
P3-075-19L12 (fit failed)
P3-075-19L15 (fit failed)
P3-075-19L18 (fit failed)
P3-075-19L6 (fit failed)
BetaS [0.51, -3.13, 3.6, 22.69, 0.97]
P3-075-19L9
BetaS [0.91, 17.5, 4.3, 11.22, 0.98]
P3-084-11L13 (fit failed)
P3-084-11L16 (fit failed)
P3-084-11L6 (fit failed)
BetaS [0.68, 8.0, 5.34, 14.62, 0.98]


P3-084-11L9 (fit failed)
BetaS [1.14, 8.5, 4.53, 18.72, 0.97]
UF
P3-099-4L12 (fit failed)
P3-099-4L15 (fit failed)
P3-099-4L6 (fit failed)
BetaS [0.71, 0.5, 8.7, 11.37, 0.98]
UF
P3-099-4L9 (fit failed)
BetaS [1.71, 15.5, 3.69, 13.23, 0.98]
UF
P3-110-23L10
BetaS [1.03, 17.5, 4.04, 11.39, 0.97]
UF
P3-110-23L14 (fit failed)
P3-110-23L17 (fit failed)
P3-110-23L20 (fit failed)


P3-110-23L6
0.6
0.4
0.2
0.0
BetaS [0.56, 5.05, 3.6, 15.21, 0.99]
UF
0
−1
0
20
40
60


Ymax (Def=1 Set=0.97)
avg1=0.97~54% avg2=na
P3
Object Number
tb (Def=na Set=na)
avg1=na avg2=na
Object Number
dm (Def=12 Set=3.6)
avg1=3.6~2% avg2=na
Object Number
de (Def=12 Set=13.52)
avg1=13.52~28% avg2=na
Object Number
page 1

LfA


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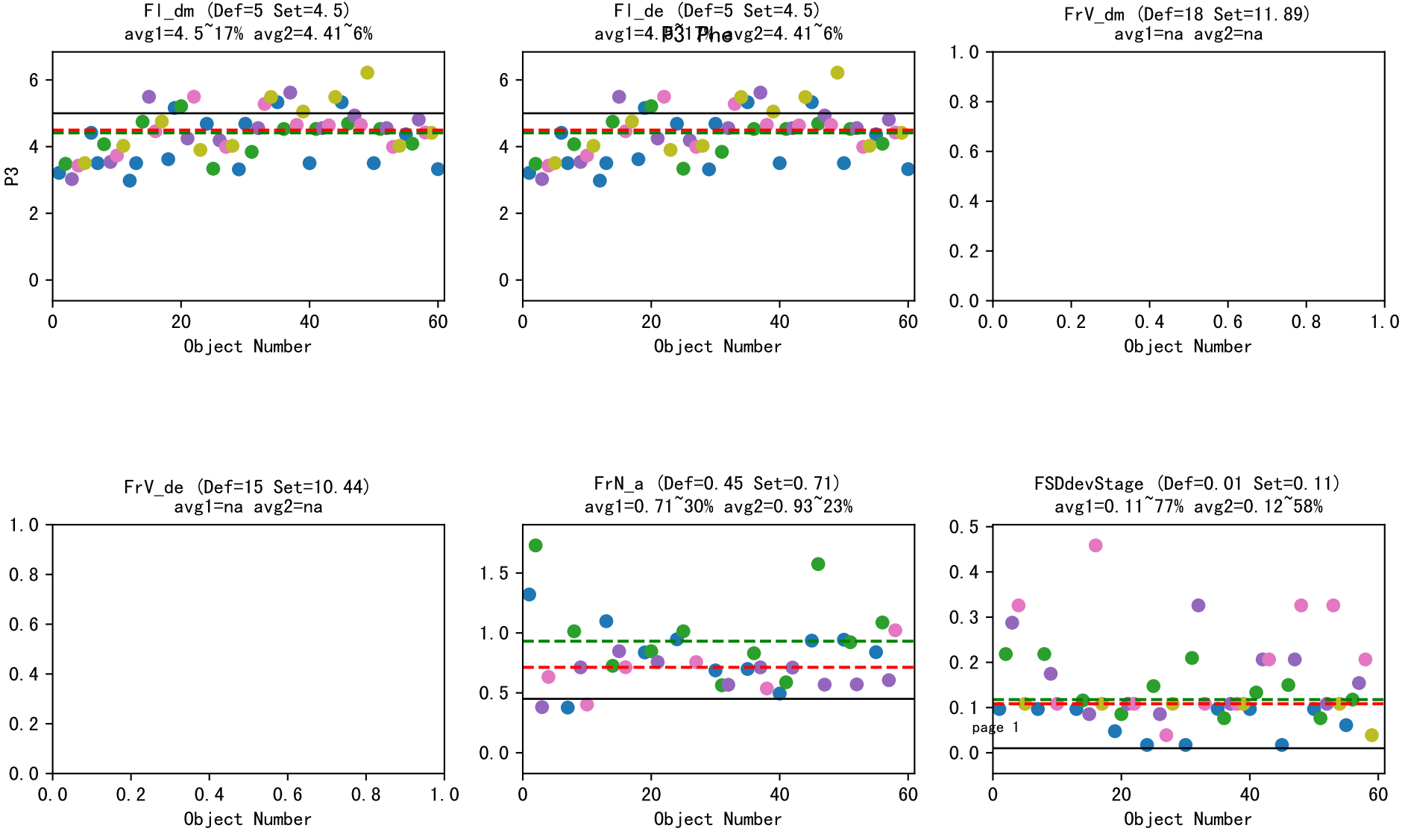
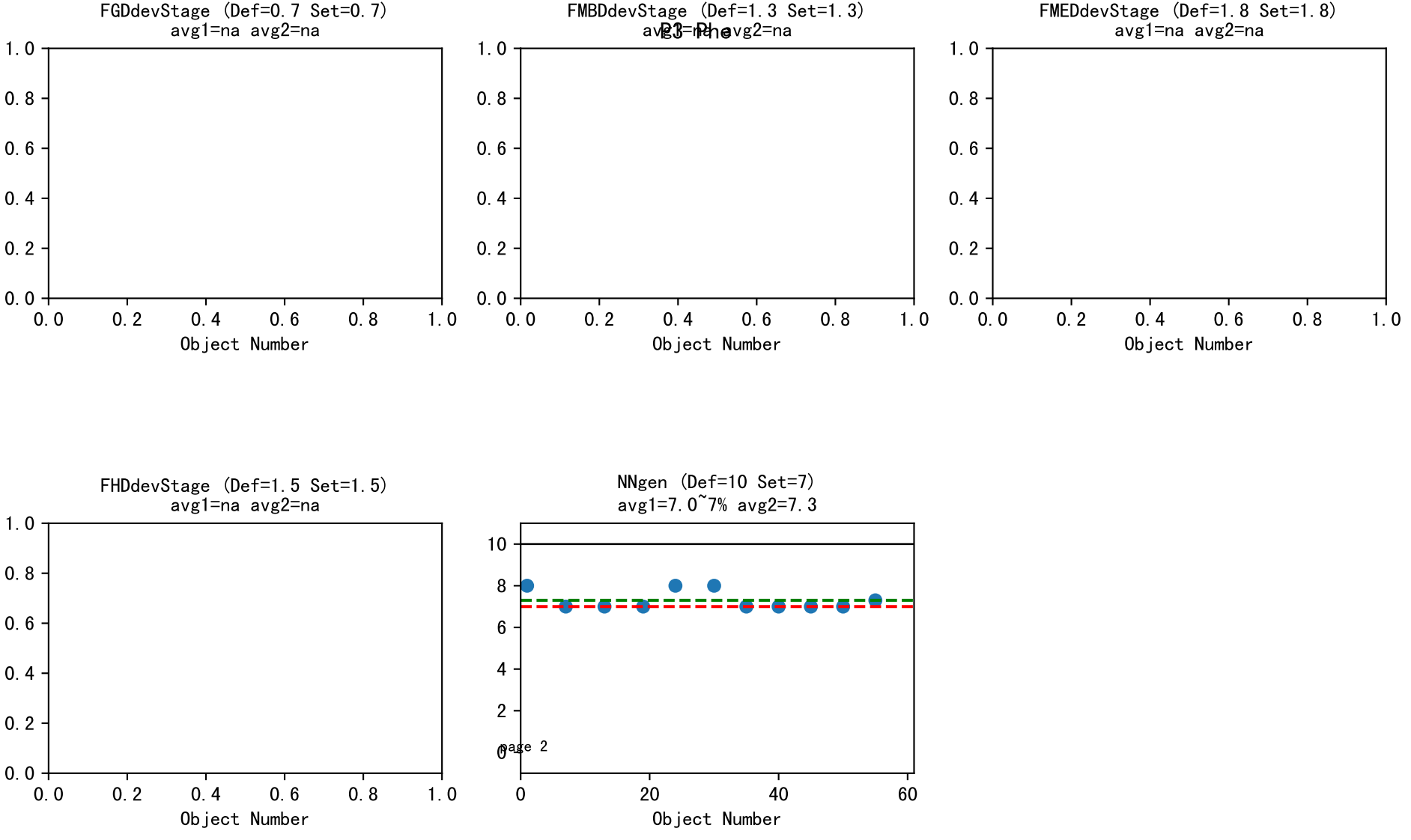
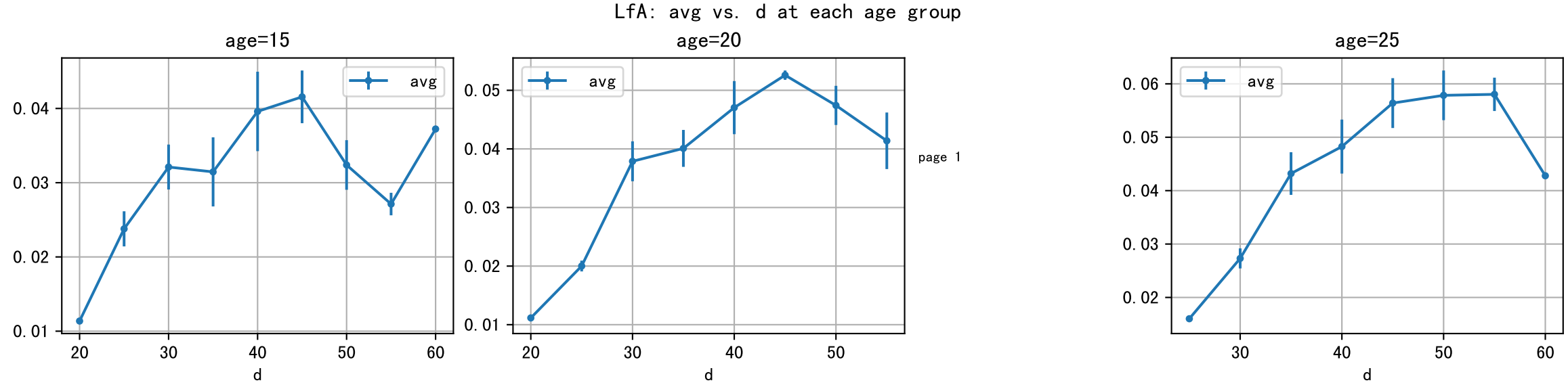
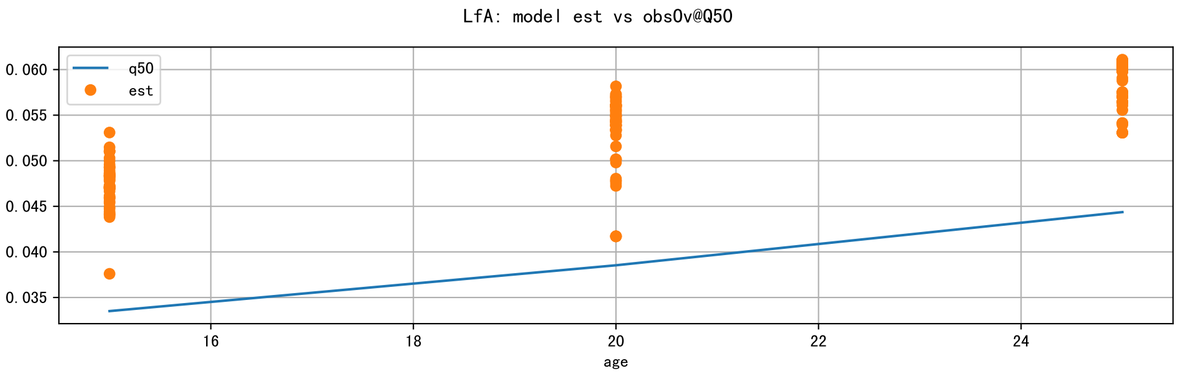
40
50
page 2


Fl_dm (Def=5 Set=4.5)
avg1=4.5~17% avg2=4.41~6%
Fl_de (Def=5 Set=4.5)
avg1=4.5~17% avg2=4.41~6%
FrV_dm (Def=18 Set=11.89)
avg1=na avg2=na
FrV_de (Def=15 Set=10.44)
avg1=na avg2=na
FrN_a (Def=0.45 Set=0.71)
avg1=0.71~30% avg2=0.93~23%
FSDdevStage (Def=0.01 Set=0.11)
avg1=0.11~77% avg2=0.12~58%
P3
Object Number
page 1

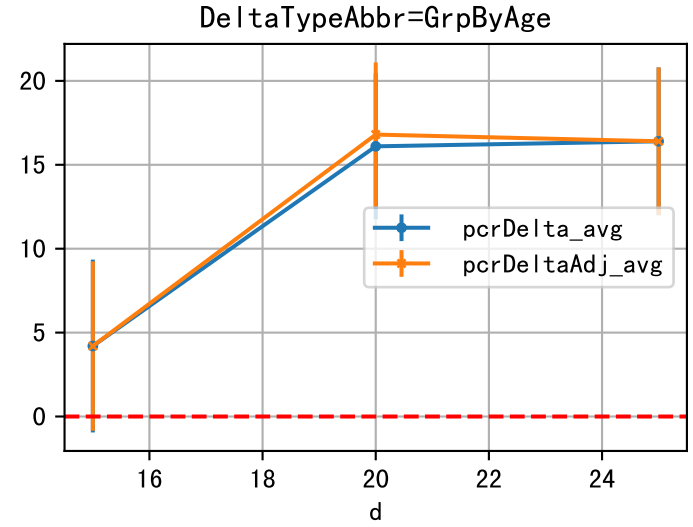

FGDdevStage (Def=0.7 Set=0.7)
avg1=na avg2=na
FMBDdevStage (Def=1.3 Set=1.3)
avg1=na avg2=na
FMEDdevStage (Def=1.8 Set=1.8)
avg1=na avg2=na
FHDdevStage (Def=1.5 Set=1.5)
avg1=na avg2=na
NNgen (Def=10 Set=7)
avg1=7.0~7% avg2=7.3
Object Number
page 2

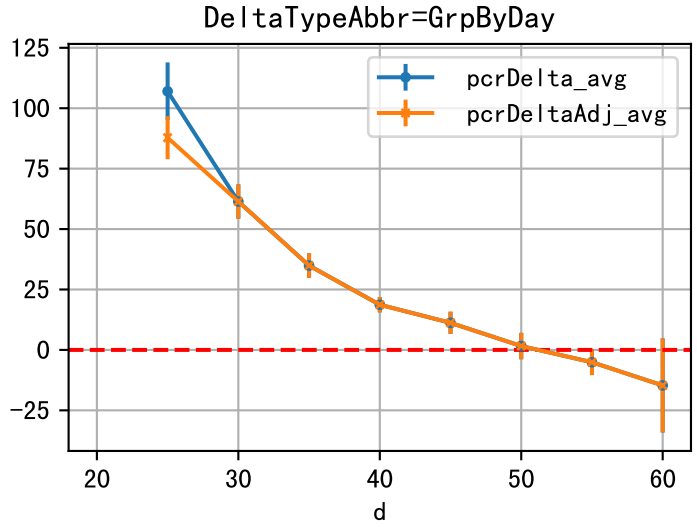

LfA: avg vs. d at each age group
age=15
age=20
age=25
avg
d
0.01
0.02
0.03
0.04
0.05
0.06
20
30
40
50
60

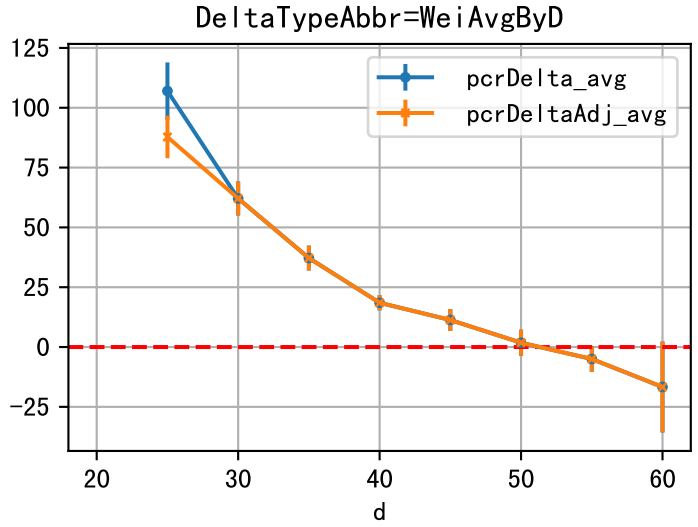
page 2


LfA: model est vs obs0v@Q50
q50
est
0.060
0.055
0.050
0.045
0.040
0.035
16
18
20
22
24
age

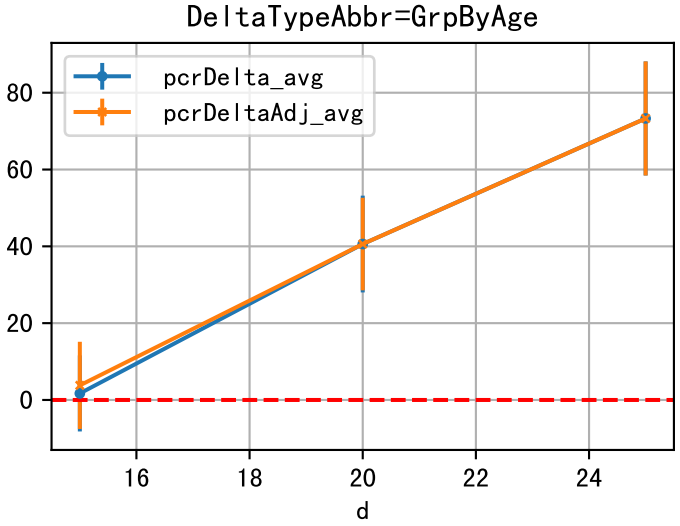
P3 LfA: D_5d_LfA

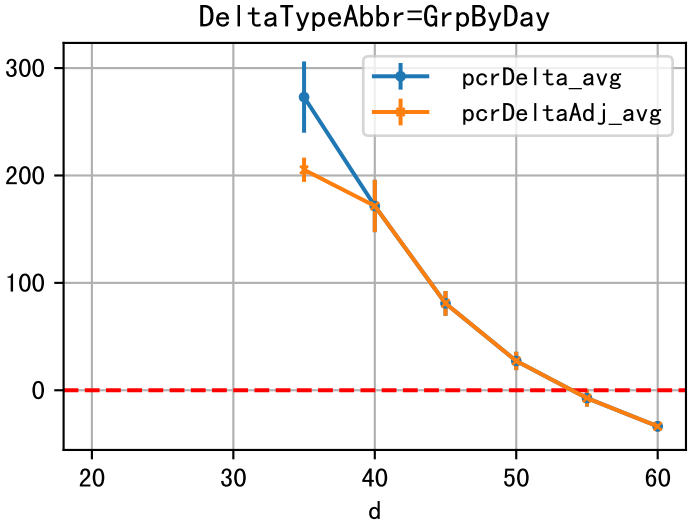


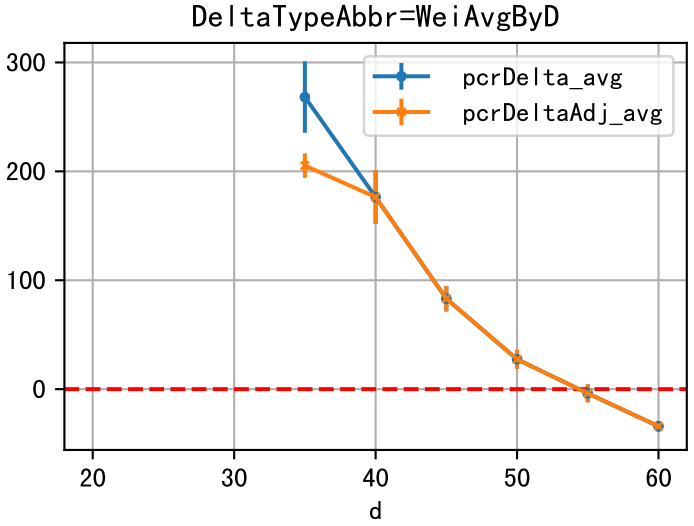




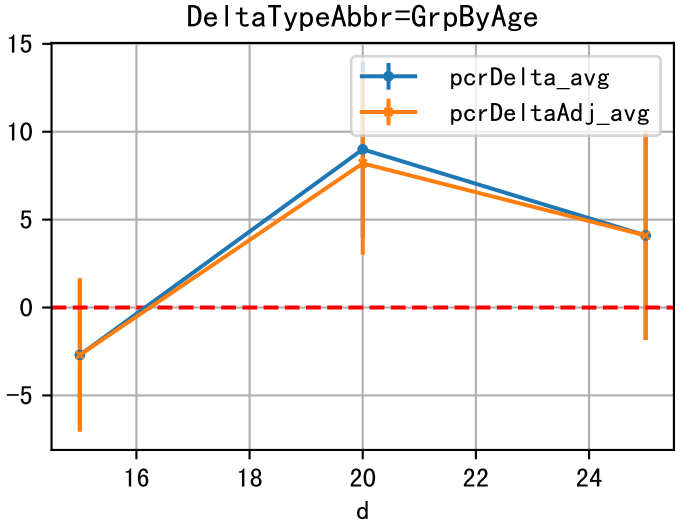
P3 LfA: D_15d_LfA

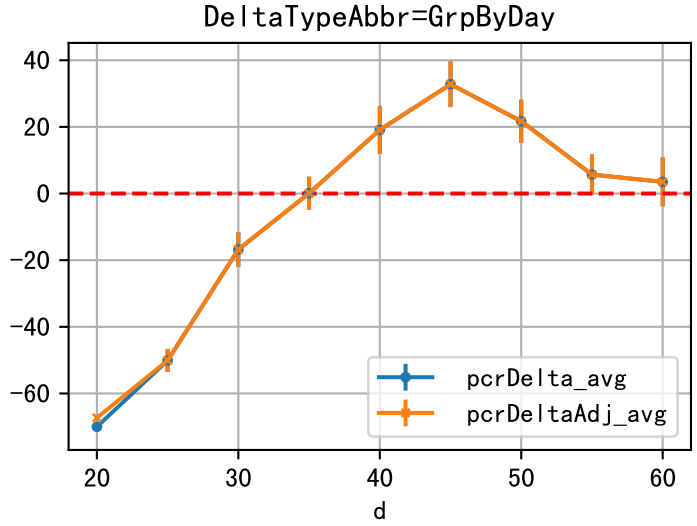


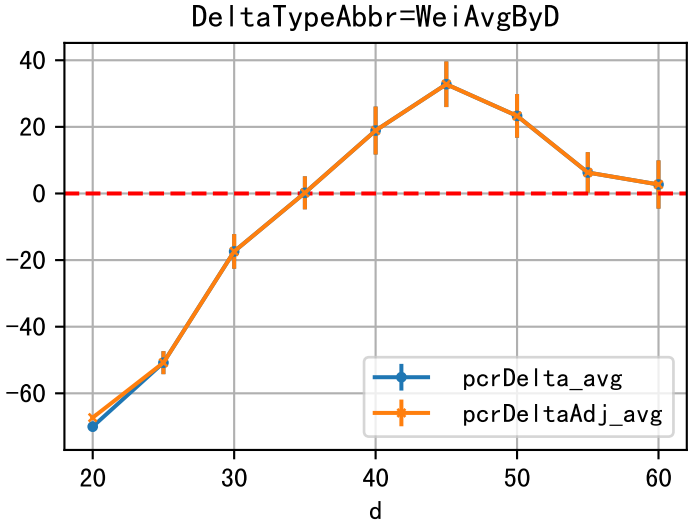




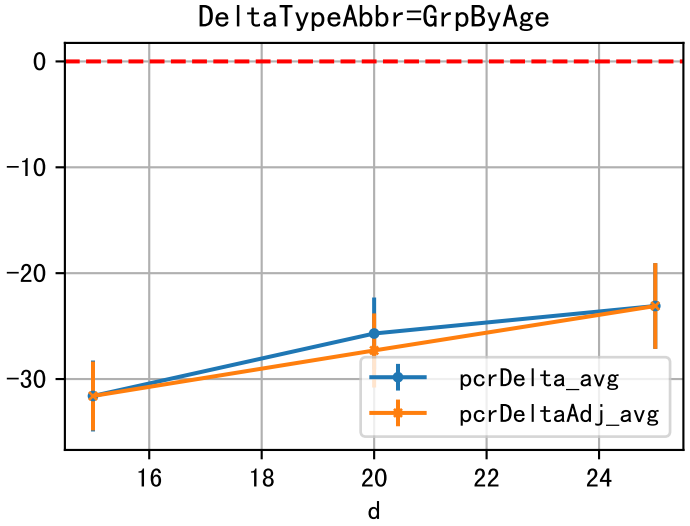
P3 LfA: D_Q50_LfA

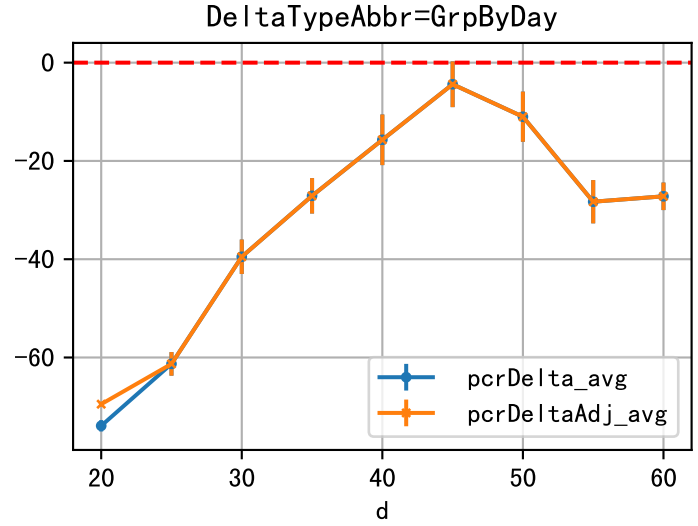


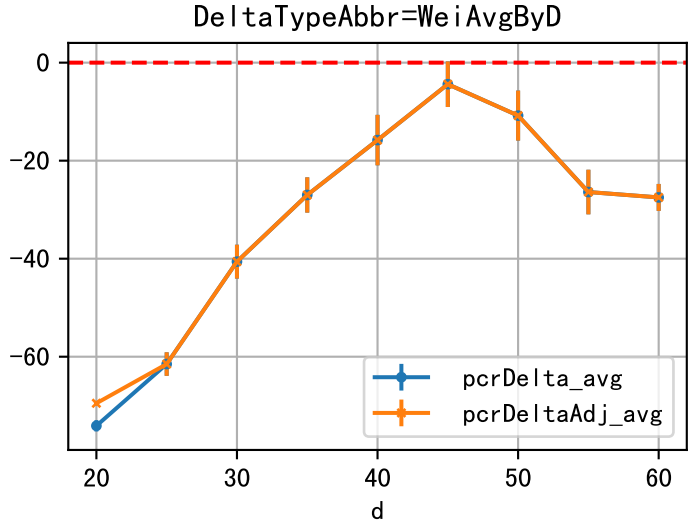


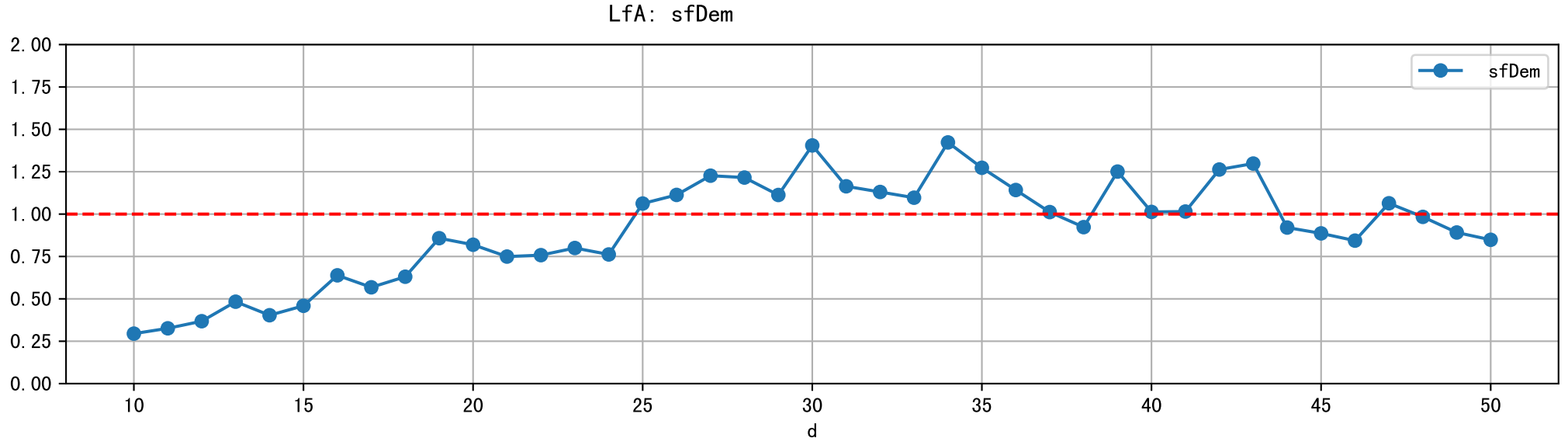


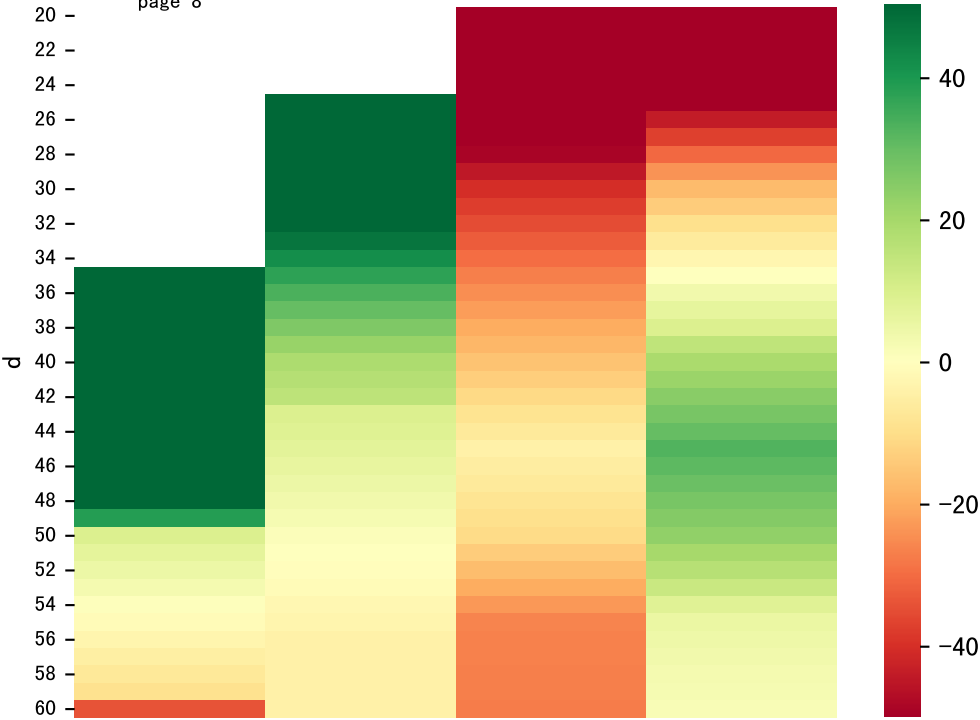
P3 LfA: D_Est_LfA

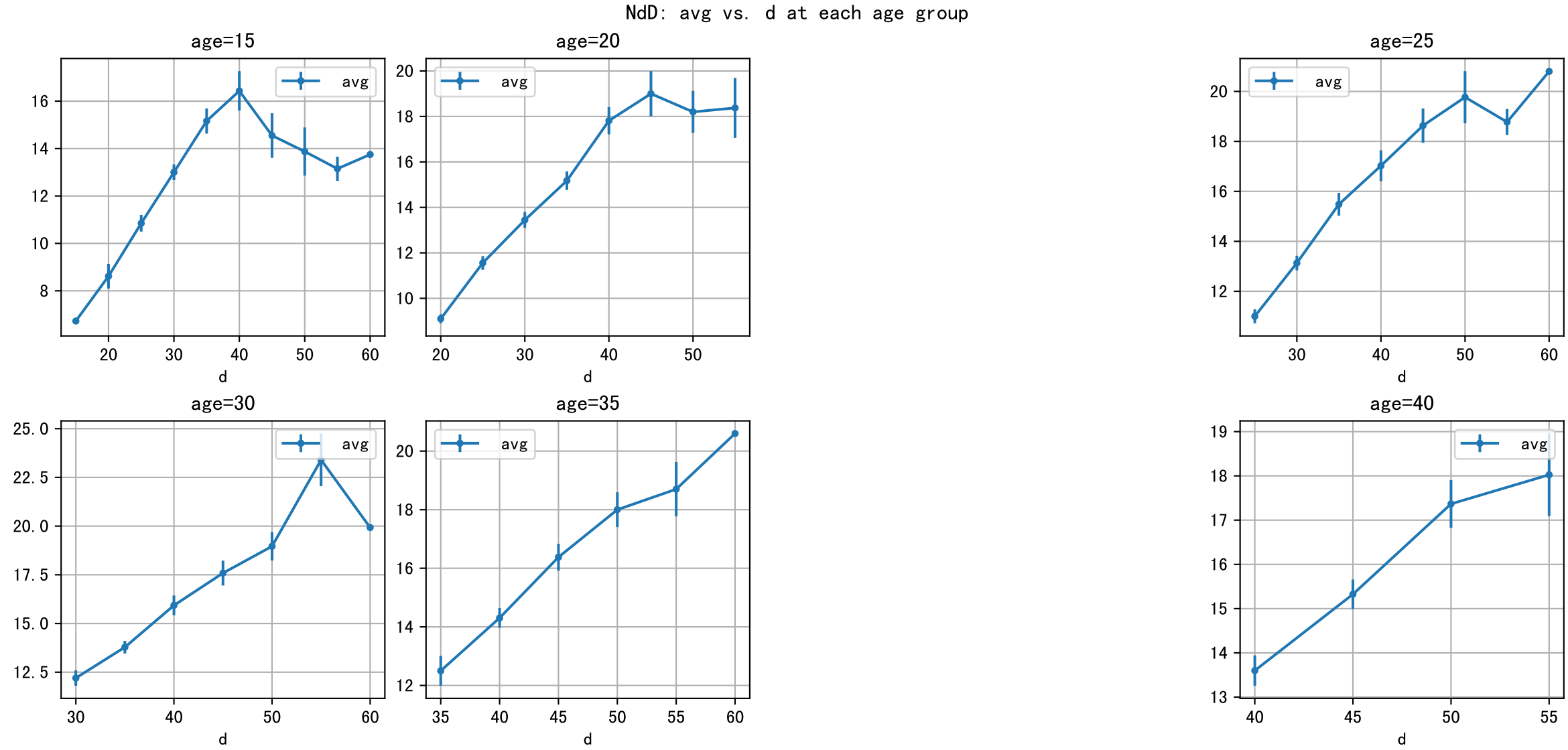


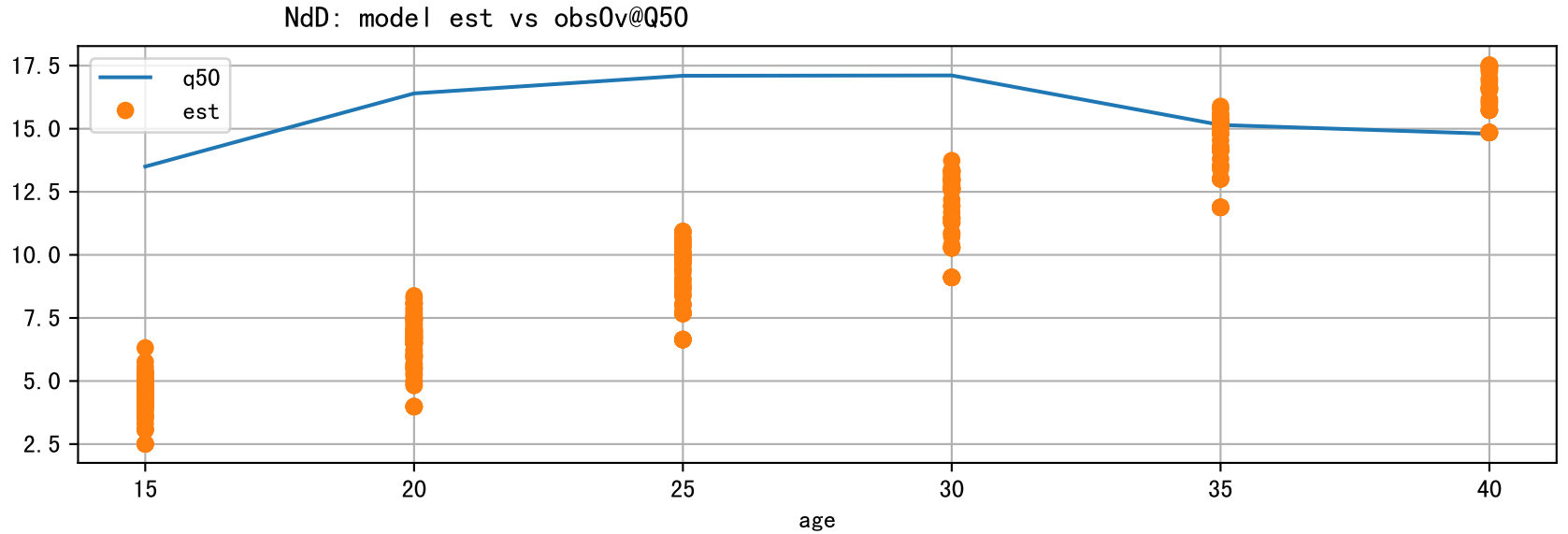




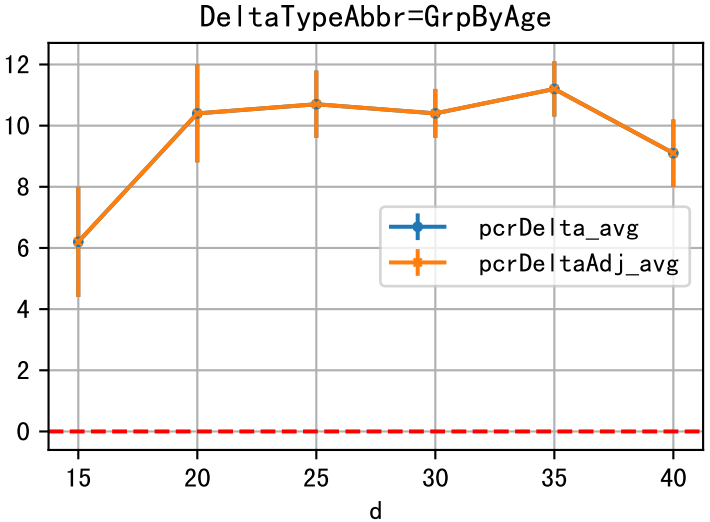

LfA: sfDem
sfDem
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
10
15
20
25
30
35
40
45
50
d

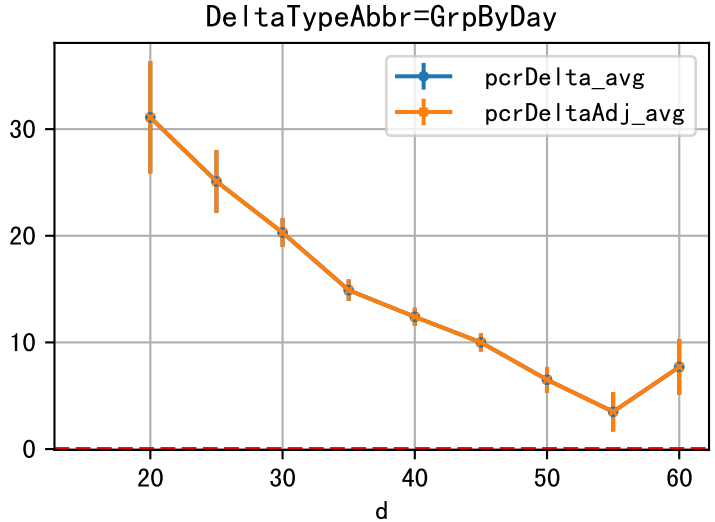

d
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
40
20
0
−20
−40

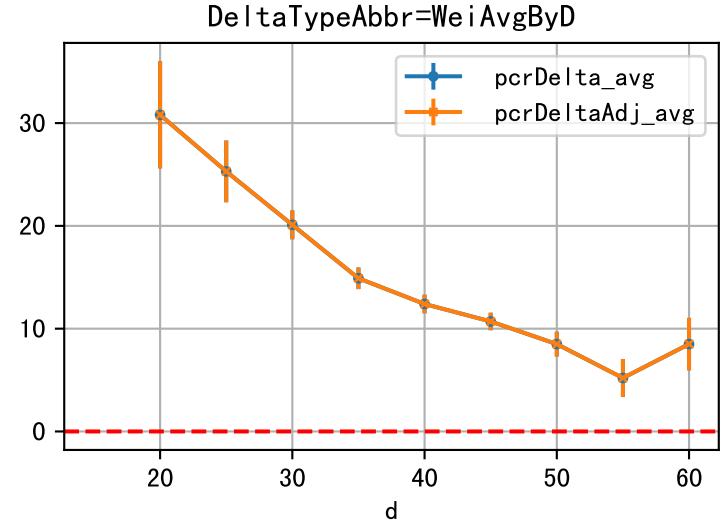

NdD: avg vs. d at each age group
age=15
age=20
age=25
age=30
age=35
age=40
avg
d


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

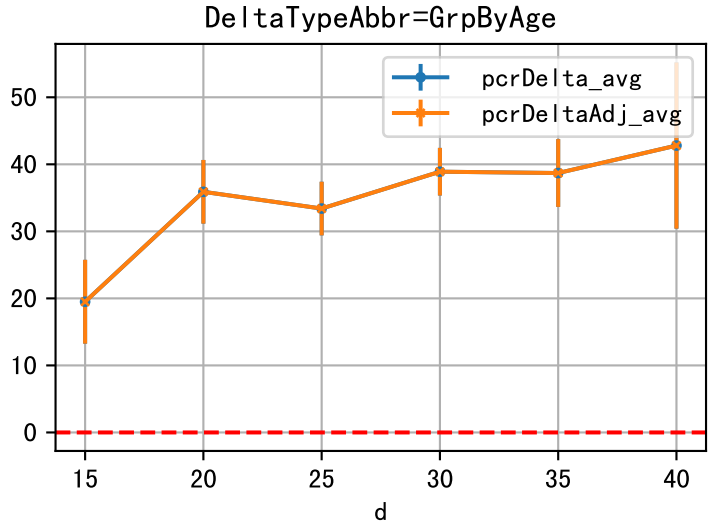
P3 NdD: D_5d_NdD

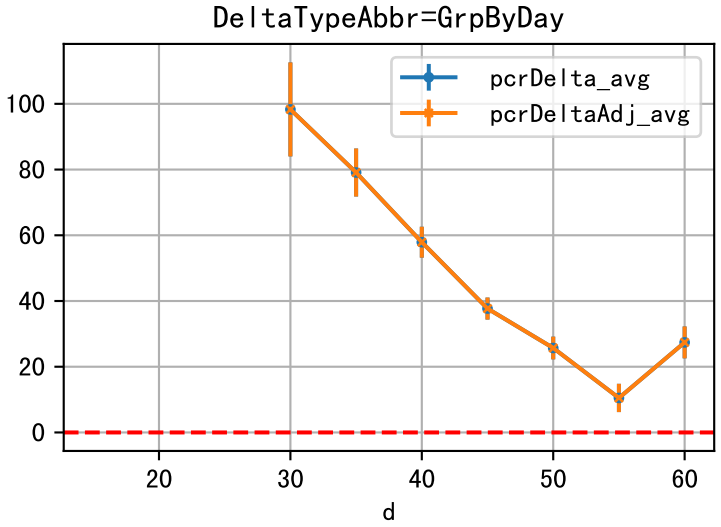


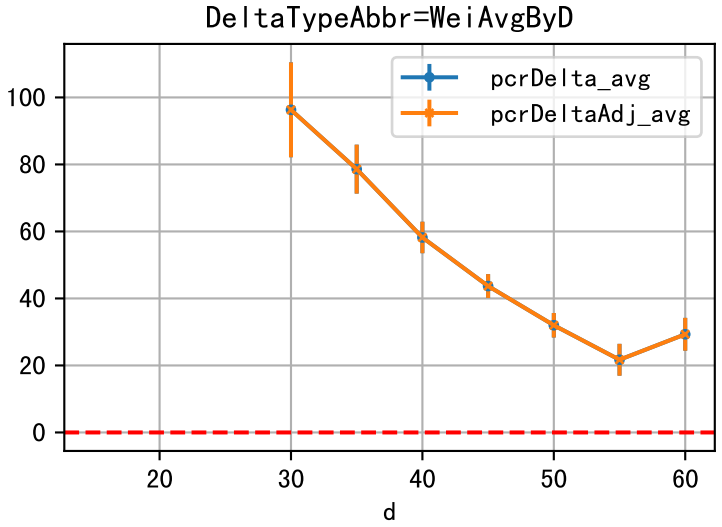




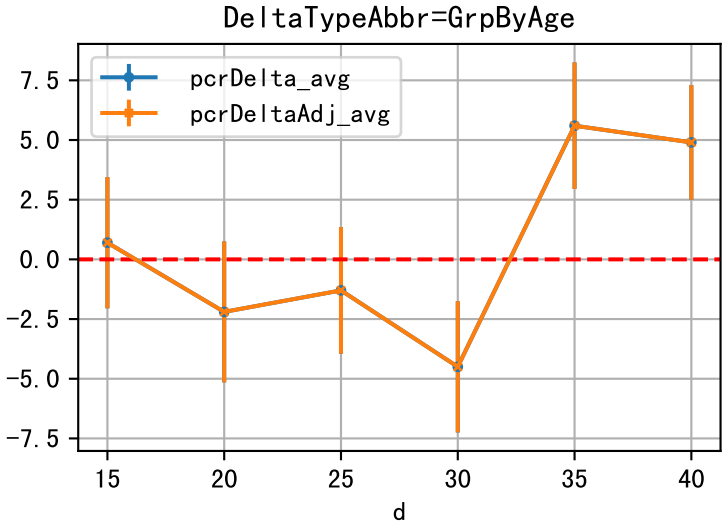
P3 NdD: D_15d_NdD

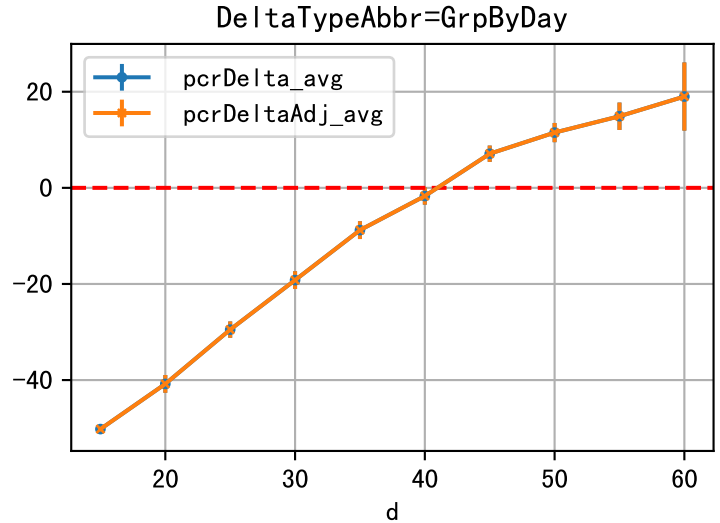


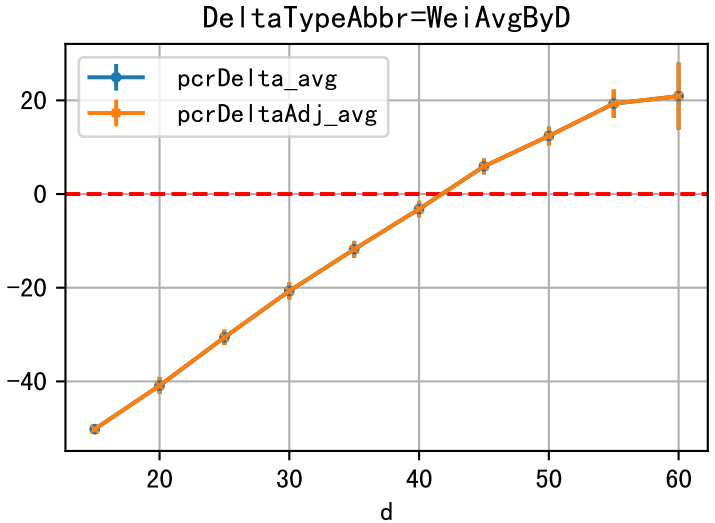


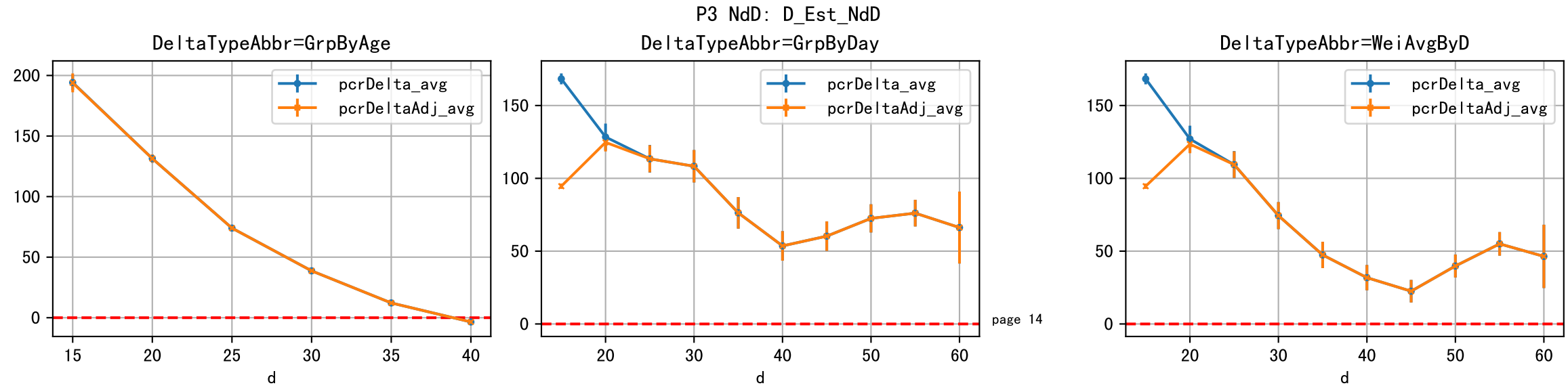


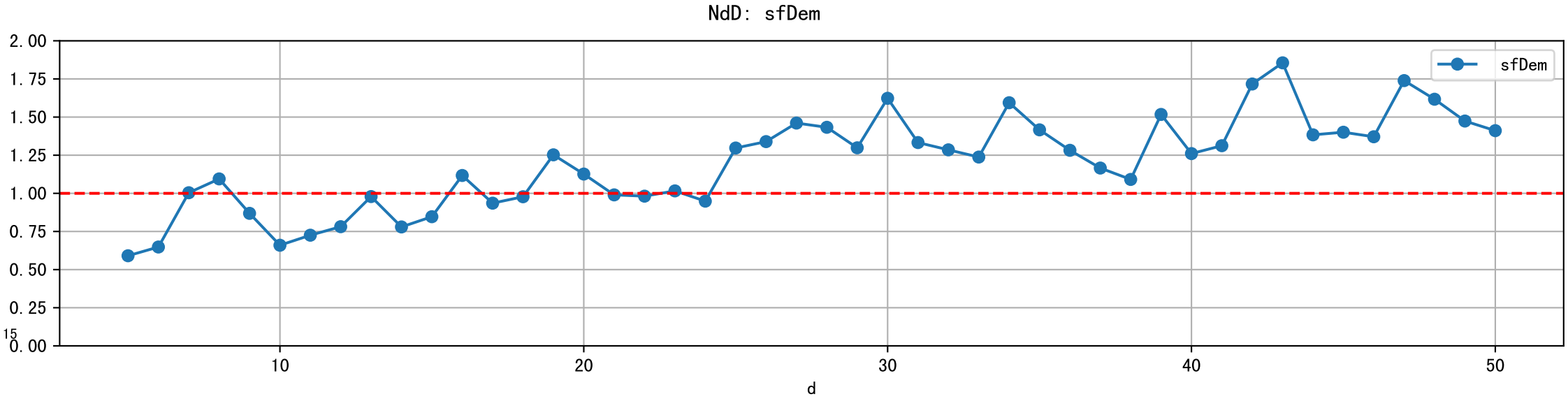
P3 NdD: D_Q50_NdD

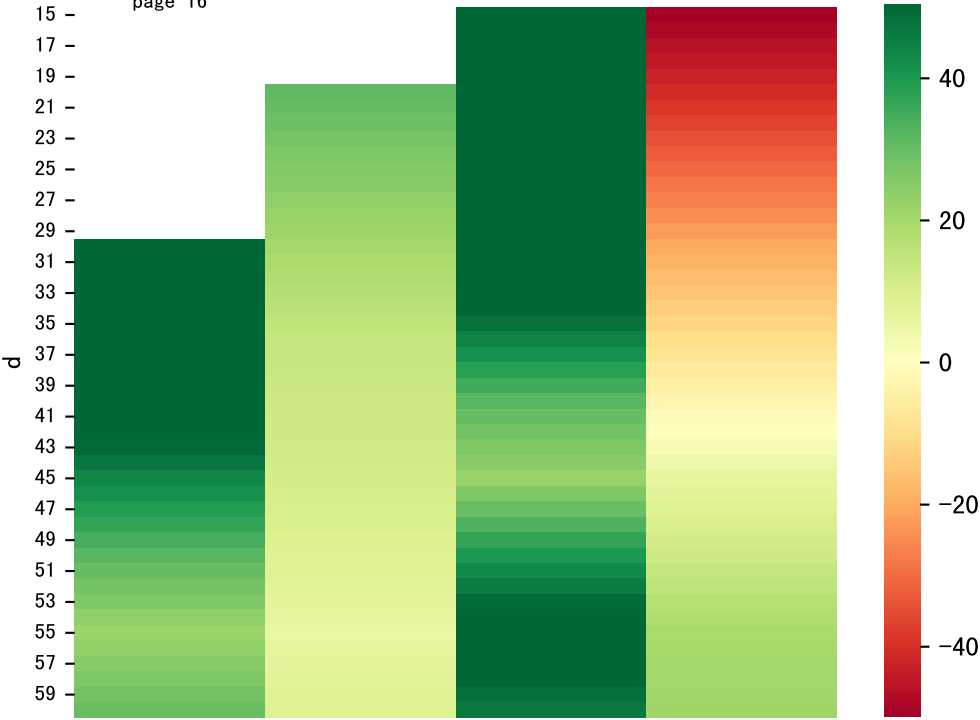


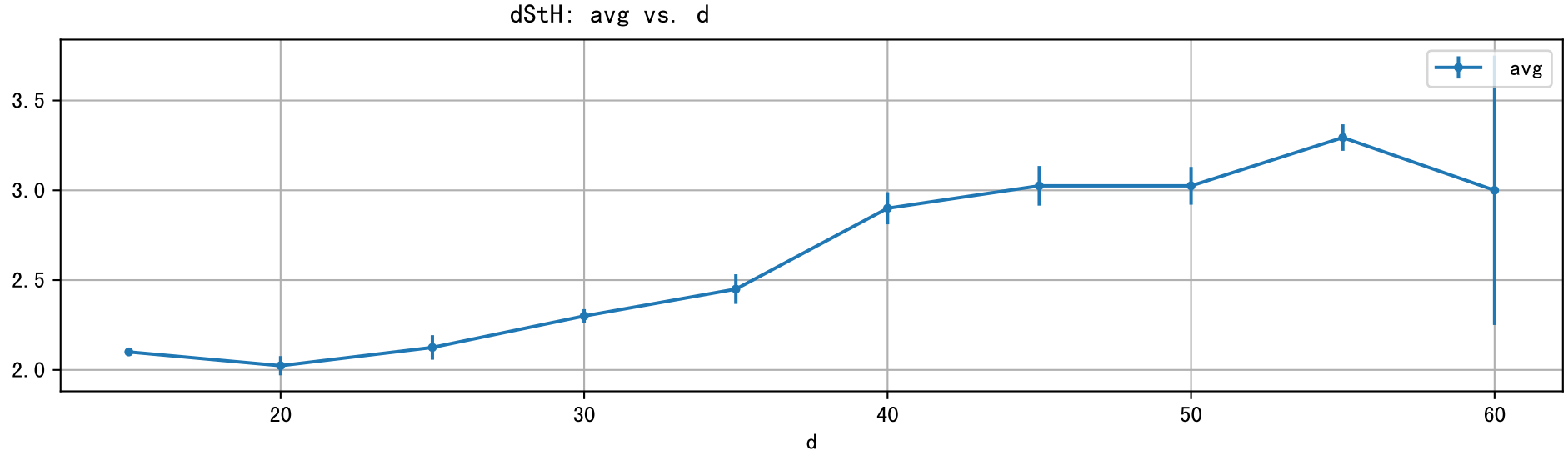


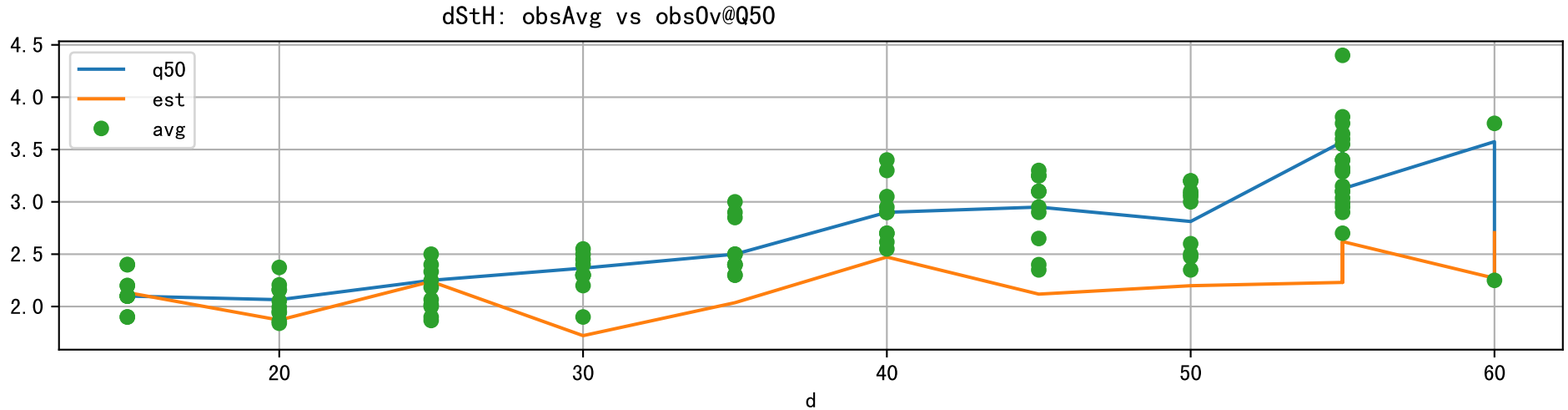


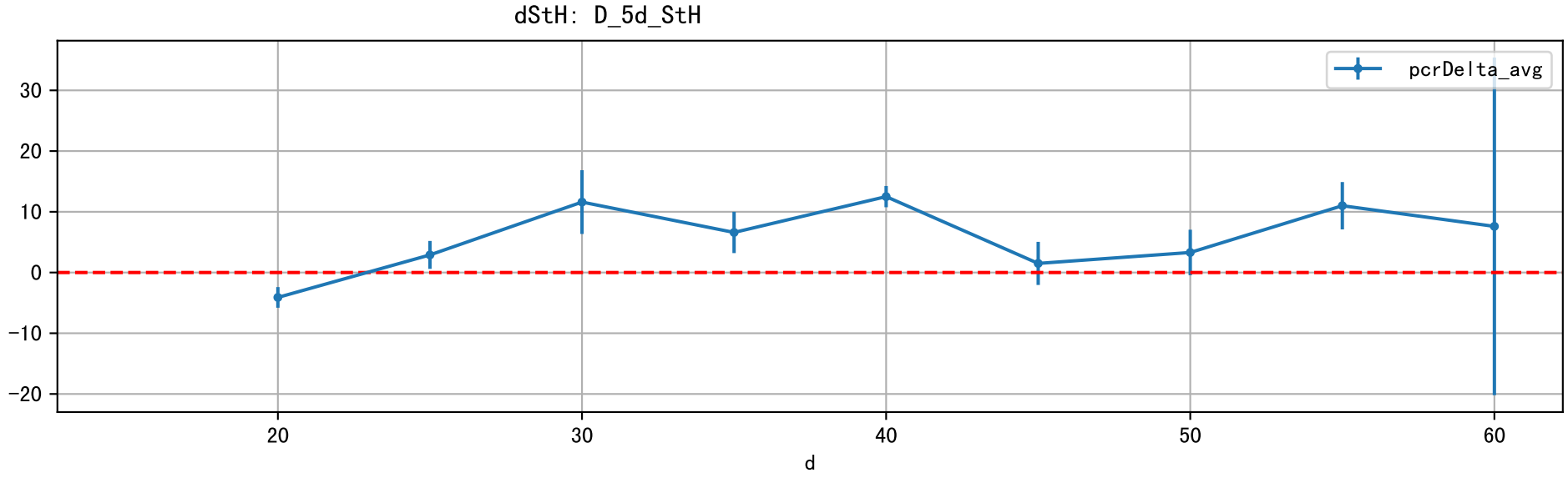

P3 NdD: D_Est_NdD
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

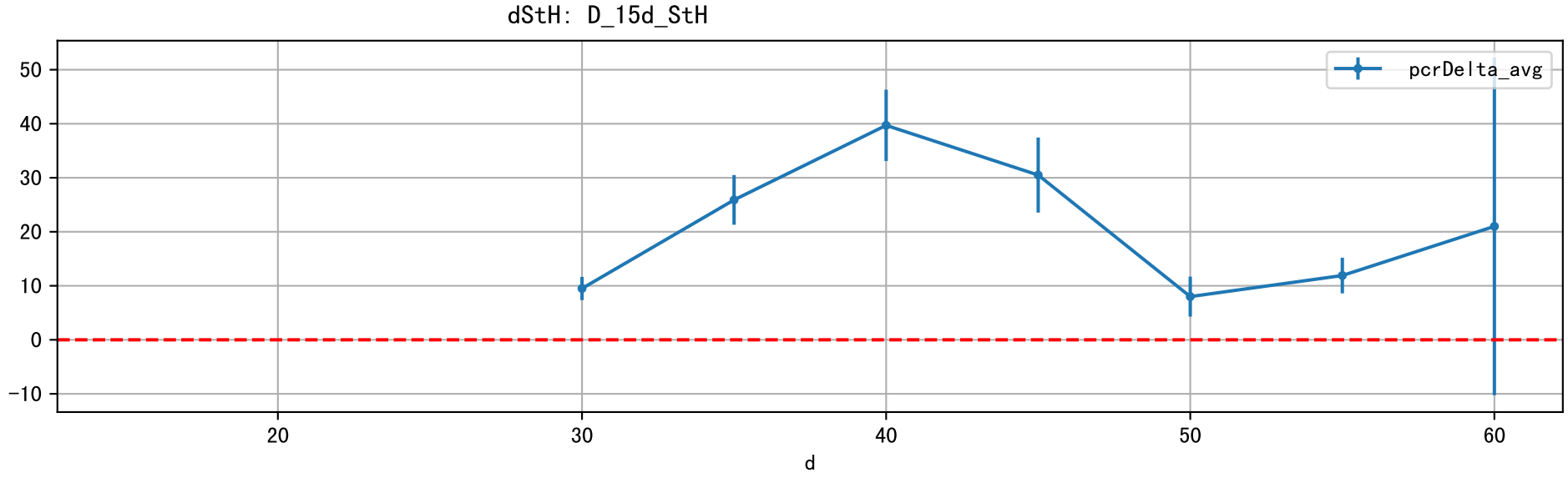

NdD: sfDem
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
10
20
30
40
50
d
sfDem

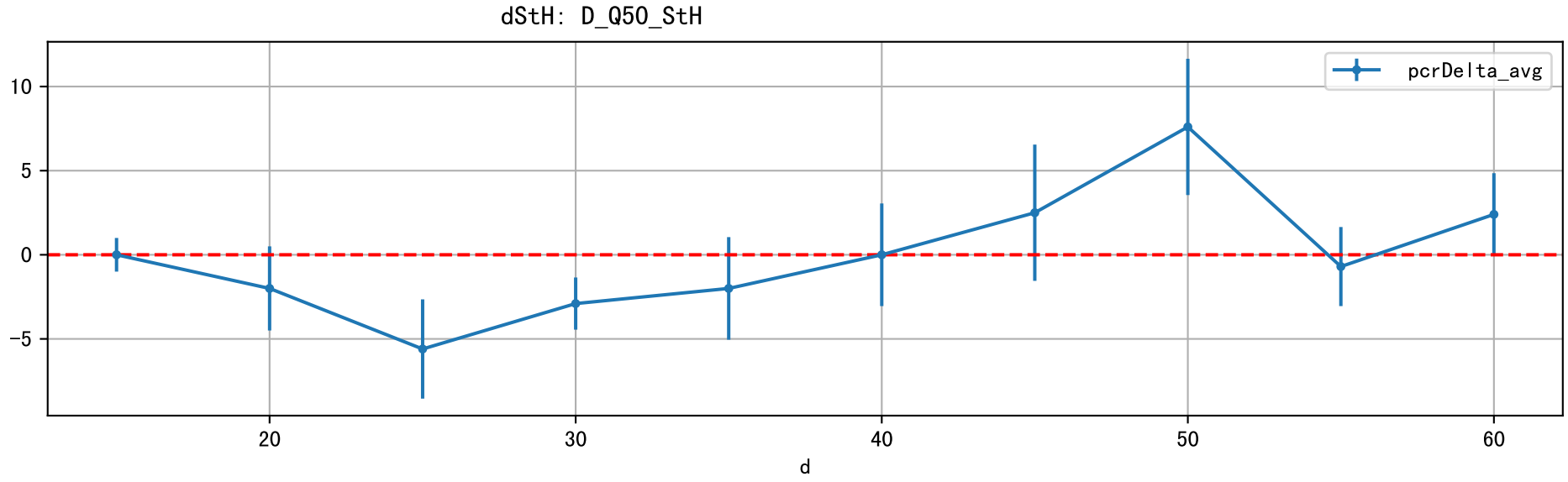

d
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
51
53
55
57
59
40
20
0
−20
−40

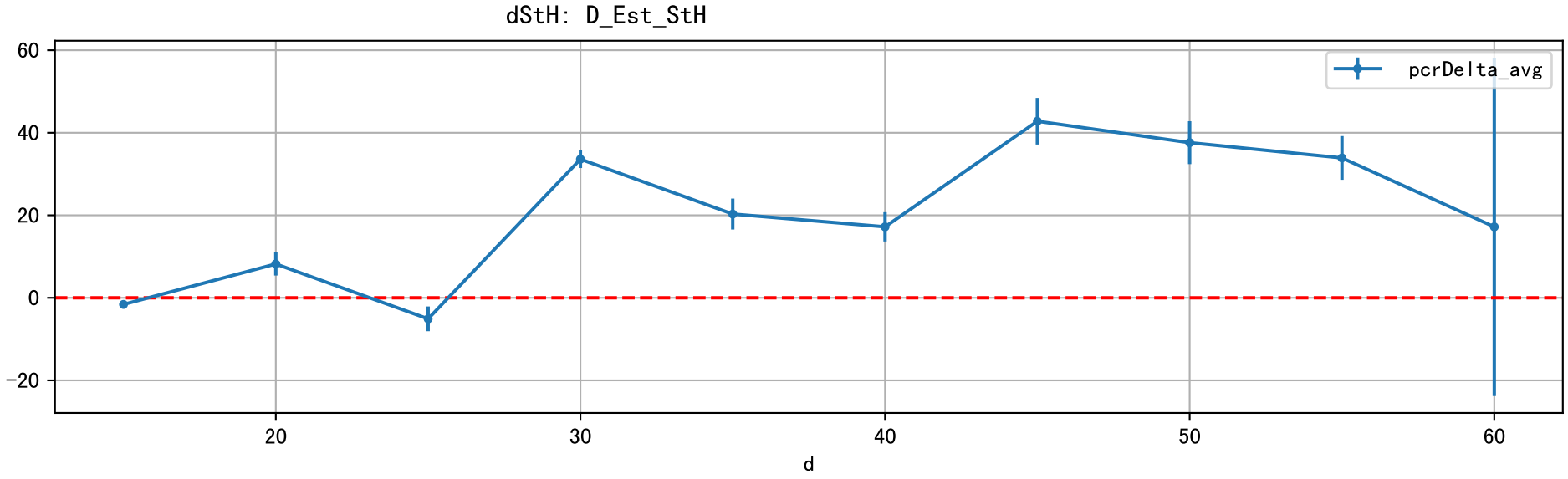

dStH: avg vs. d
avg
3.5
3.0
2.5
2.0
20
30
40
50
60
d

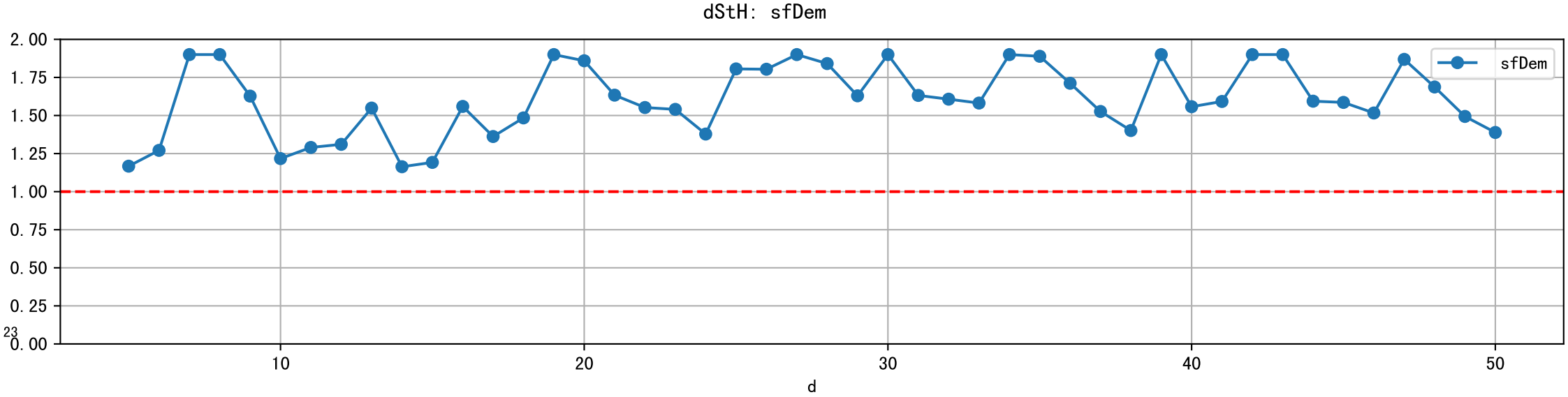

dStH: obsAvg vs obsOv@Q50
q50
est
avg
4.5
4.0
3.5
3.0
2.5
2.0
20
30
40
50
60
d

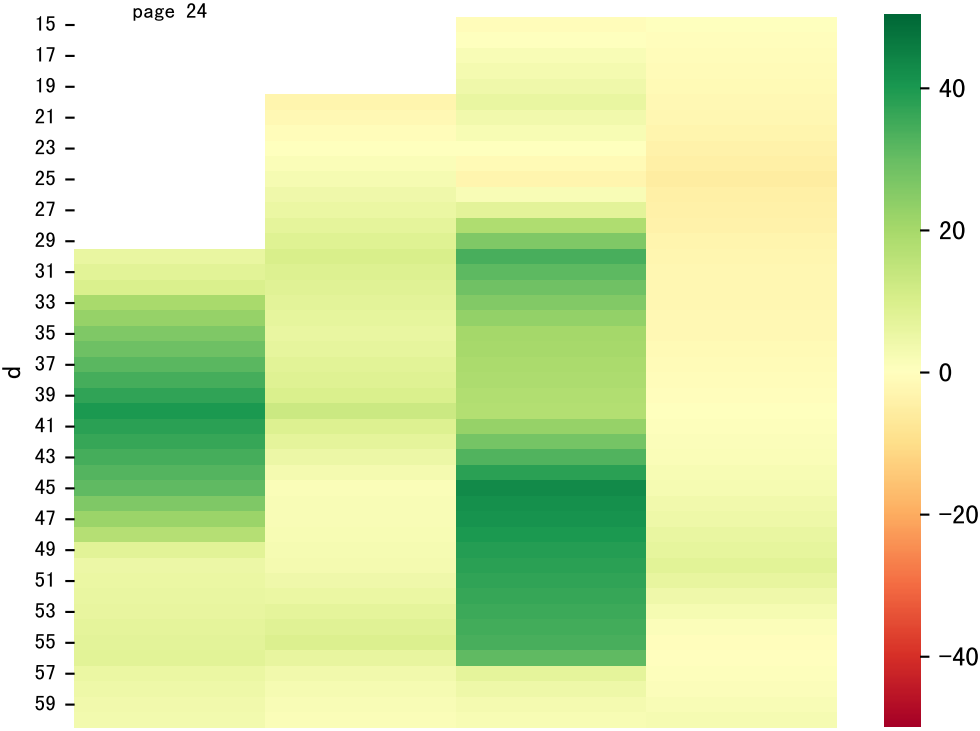

dStH: D_5d_StH
pcrDelta_avg
30
20
10
0
−10
−20
20
30
40
50
60
d

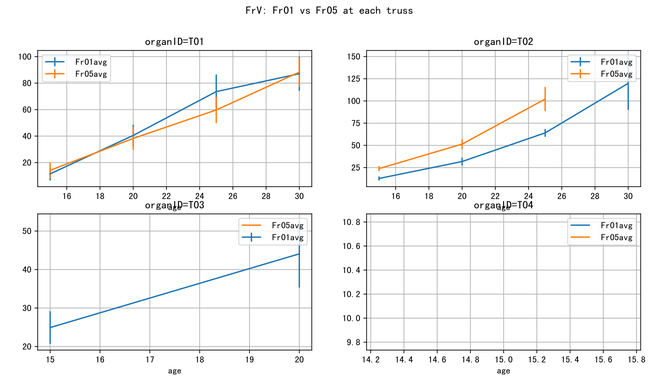

dStH: D_15d_StH
pcrDelta_avg
50
40
30
20
10
0
−10
20
30
40
50
60
d

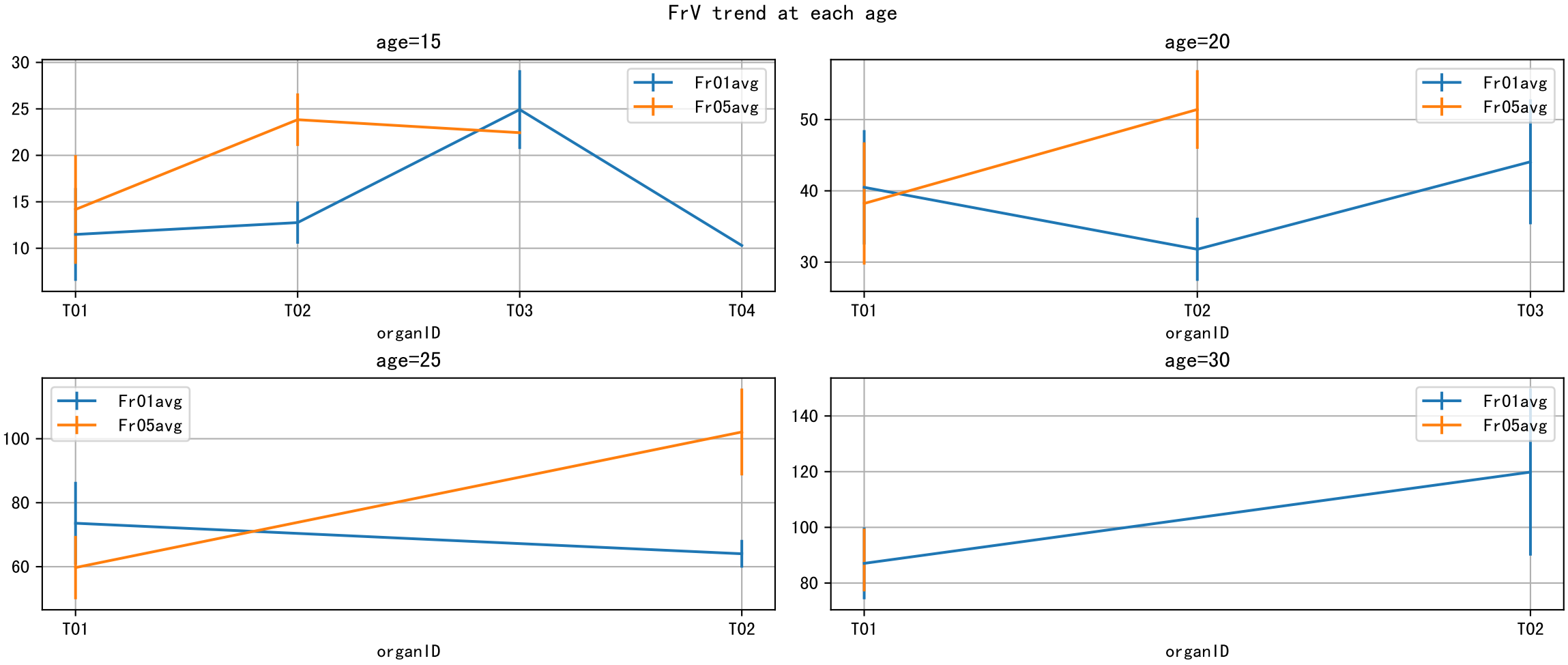

dStH: D_Q50_StH
pcrDelta_avg
10
5
0
−5
20
30
40
50
60
d

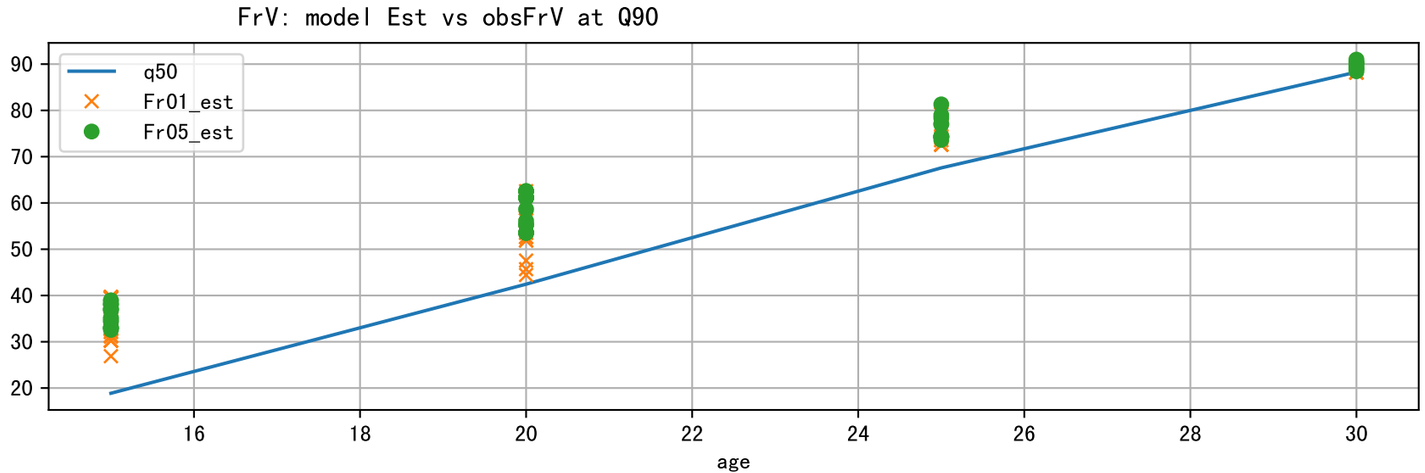

dStH: D_Est_StH
pcrDelta_avg
60
40
20
0
−20
20
30
40
50
60
d

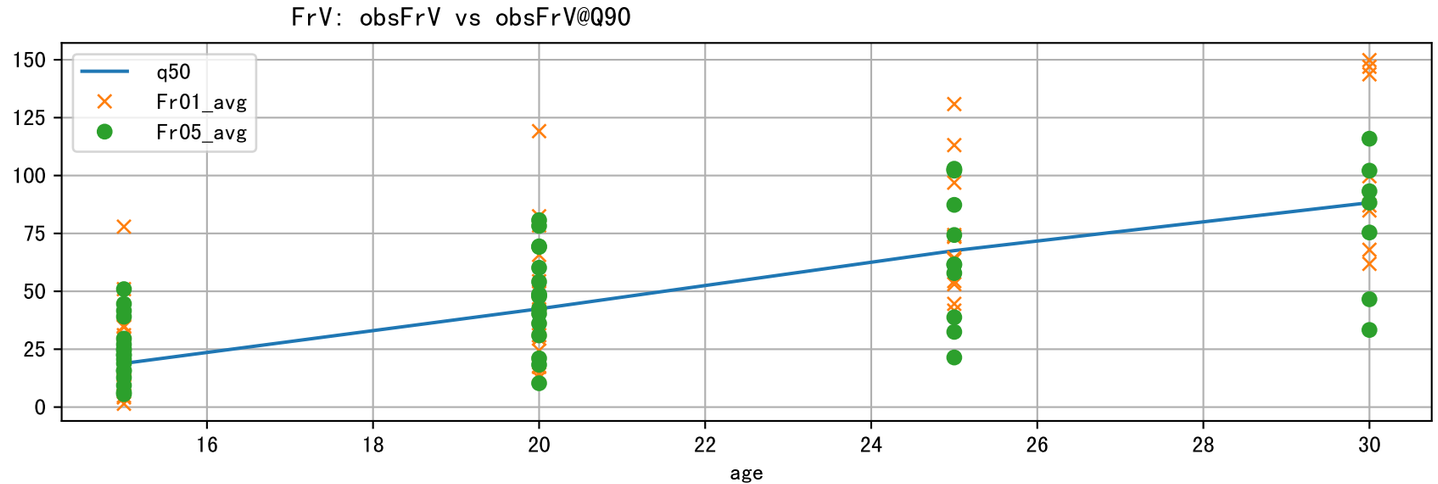

dStH: sfDem
sfDem
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
10
20
30
40
50
d


page 24
d
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
51
53
55
57
59
40
20
0
−20
−40

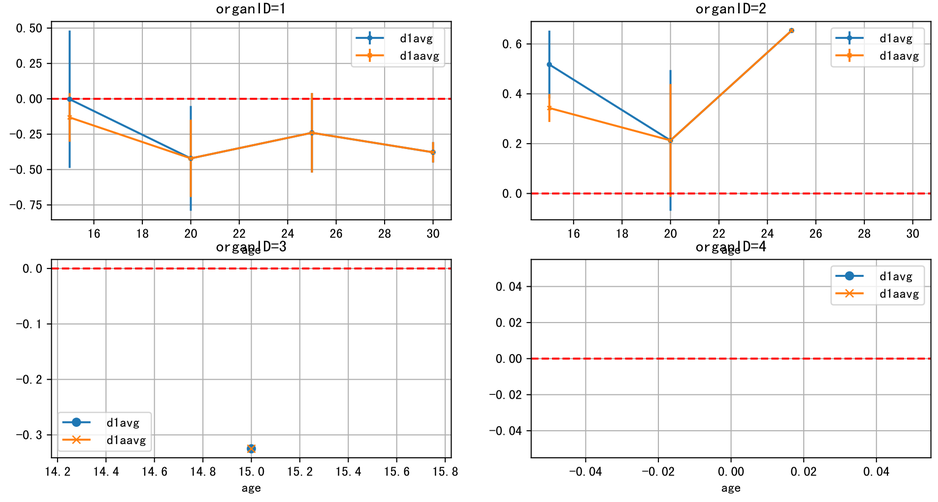

FrV: Fr01 vs Fr05 at each truss
organID=T01
Fr01avg
Fr05avg
organID=T02
Fr01avg
Fr05avg
organID=T03
Fr05avg
Fr01avg
organID=T04
Fr01avg
Fr05avg
age
age
age
age

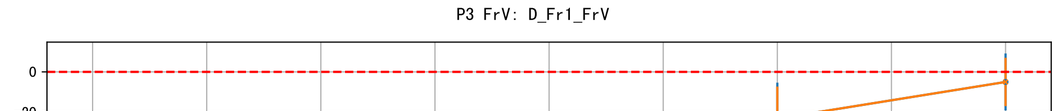

FrV trend at each age
age=15
age=20
age=25
age=30
Fr01avg
Fr05avg
organID
T01
T02
T03
T04


FrV: model Est vs obsFrV at Q90
q50
Fr01_est
Fr05_est
90
80
70
60
50
40
30
20
16
18
20
22
24
26
28
30
age

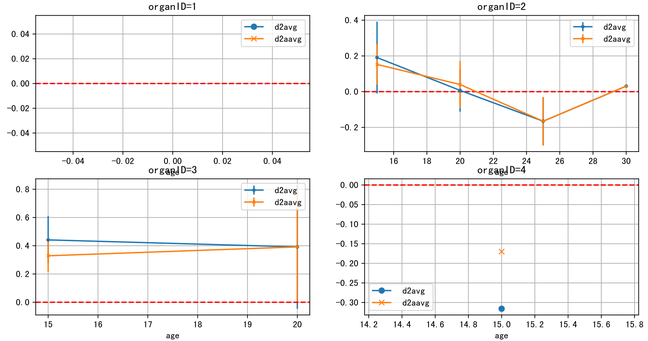

FrV: obsFrV vs obsFrV@Q90
q50
Fr01_avg
Fr05_avg
150
125
100
75
50
25
0
16
18
20
22
24
26
28
30
age

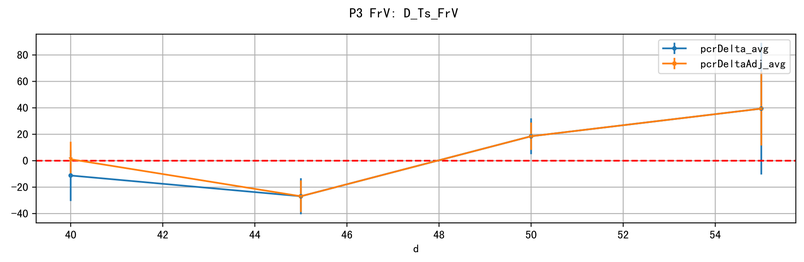
FrV: D_Fr1_FrV



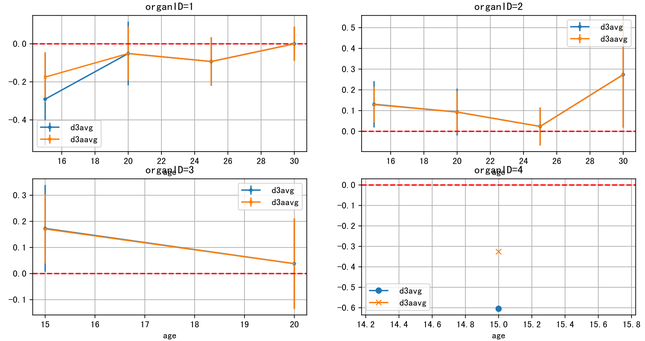

P3 FrV: D_Fr1_FrV
0
−20
−40
−60
−80
−100
35.0
37.5
40.0
42.5
45.0
47.5
50.0
52.5
55.0
d
pcrDelta_avg
pcrDeltaAdj_avg

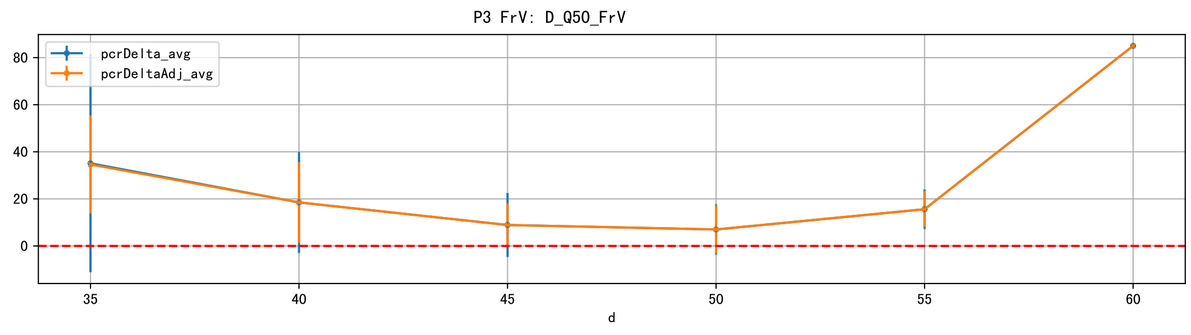
FrV: D_Ts_FrV



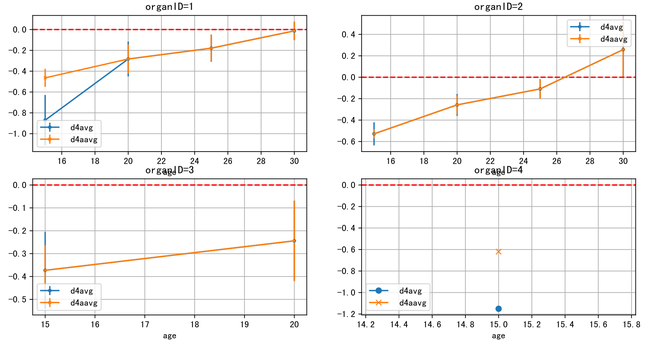

P3 FrV: D_Ts_FrV
pcrDelta_avg
pcrDeltaAdj_avg
80
60
40
20
0
−20
−40
40
42
44
46
48
50
52
54
d

FrV: D_Q50_FrV




P3 FrV: D_Q50_FrV
pcrDelta_avg
pcrDeltaAdj_avg
80
60
40
20
0
35
40
45
50
55
60
d

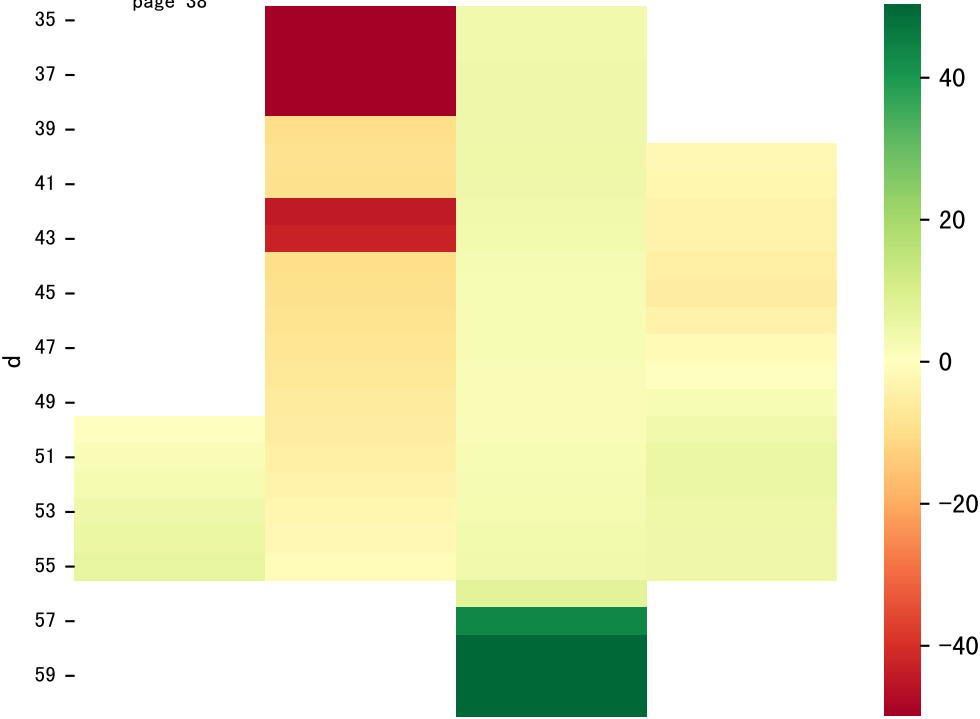
FrV: D_Est_FrV

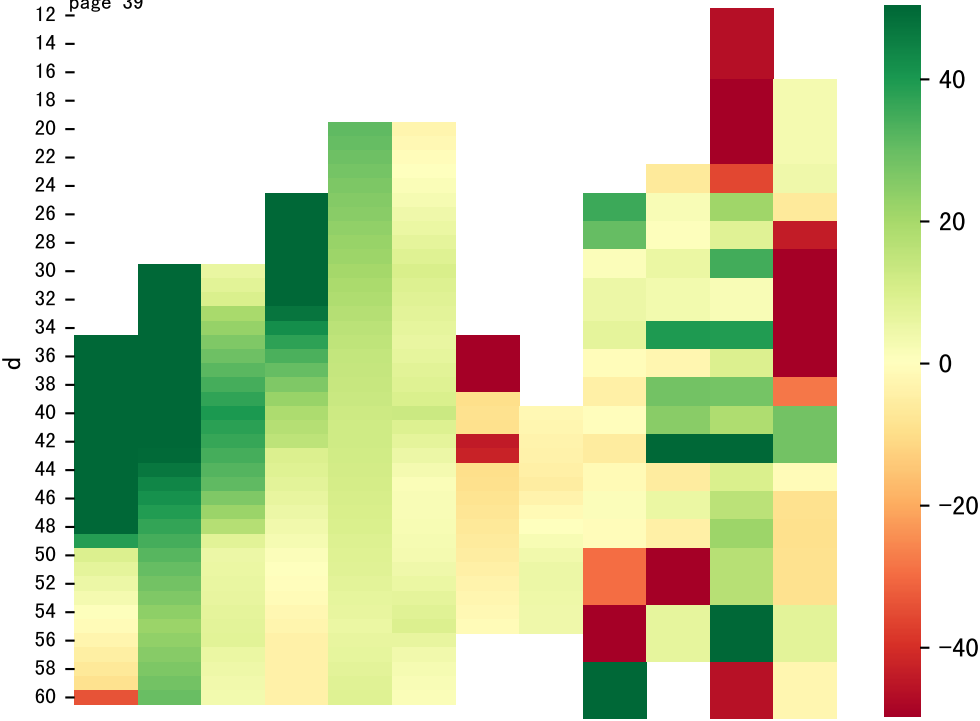


year 30

P3 FVF: D_Eul_FVF
eulDelta_avg
eulDelta_m
40
30
20
10
0
−10
50
51
52
53
54
55
d

P3 F/V: sTDem
sTDem
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
40
41
42
43
44
45
d


35
37
39
41
43
45
47
49
51
53
55
57
59
d
40
20
0
−20
−40


d
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
40
20
0
−20
−40