

Phenotype Data Analysis Plots

PhenoData day range = 5 – 35

Analysis cutoff day = 35

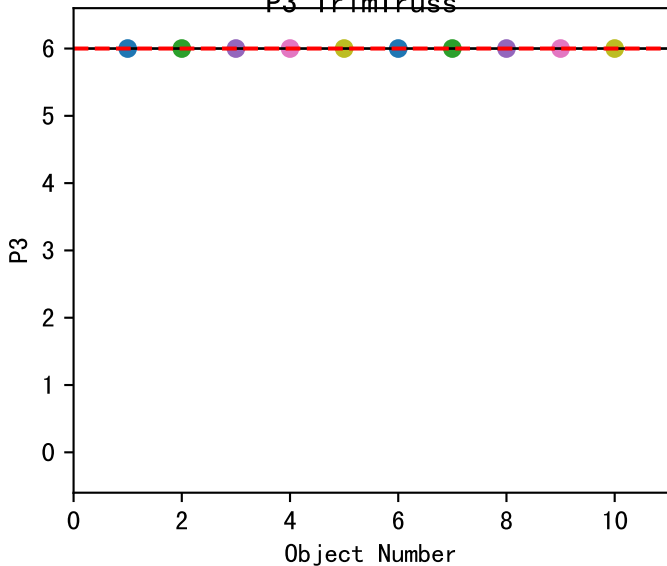
NC11 P3

2025-05-11 (Day 36)

TrussNodeMaxPerStem (Def=6.0 Set=6)

avg1=6.0~0% avg2=na

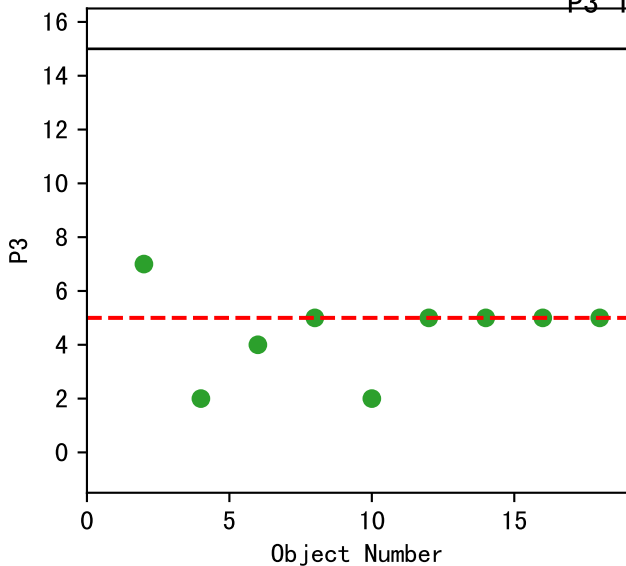
P3 TrimTruss



FruitNumAvgPerTruss (Def=15 Set=5)

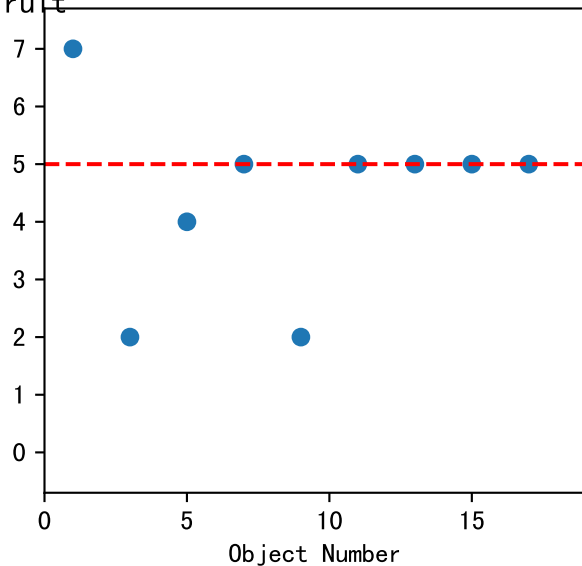
avg1=5.0~8% avg2=na

P3 TrimFruit

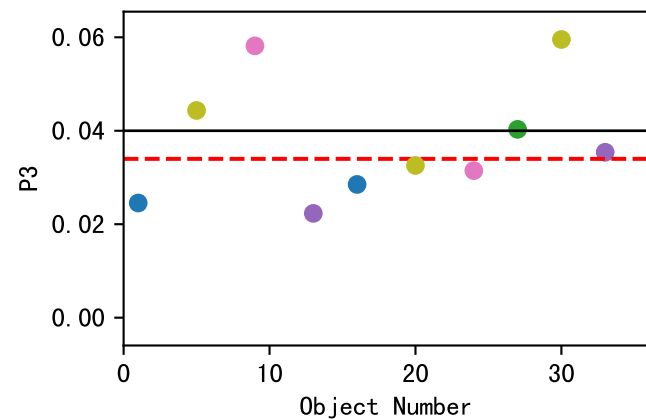


FruitNumMaxPerTruss (Def=na Set=5)

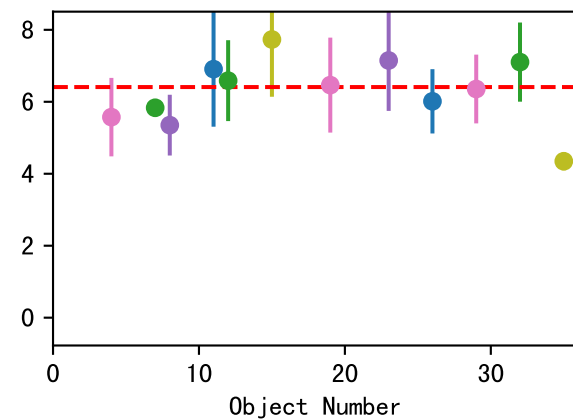
avg1=5.0~8% avg2=na



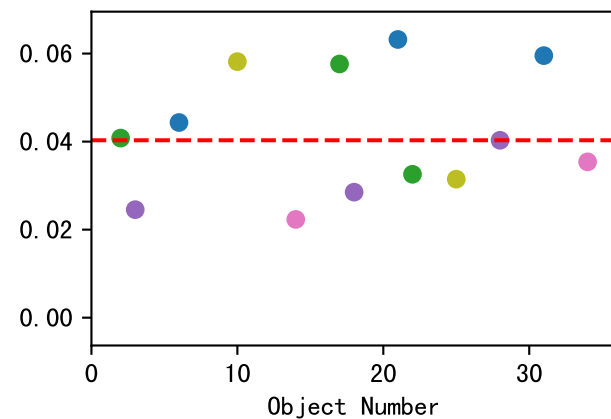
LfA_Q90AbsY (Def=0.04 Set=0.03)
avg1=0.03~38% avg2=na



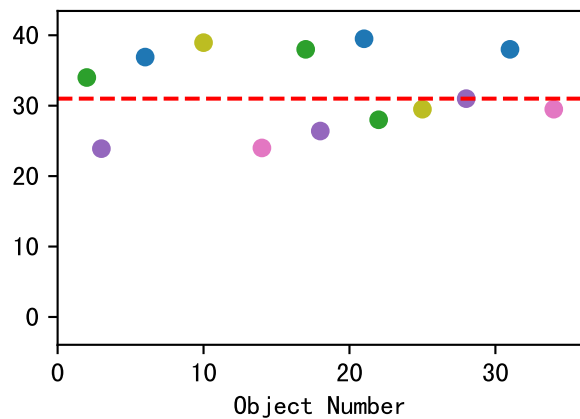
NdL_avgAbsY (Def=na Set=6.41)
avg1=0.41~19% avg2=na



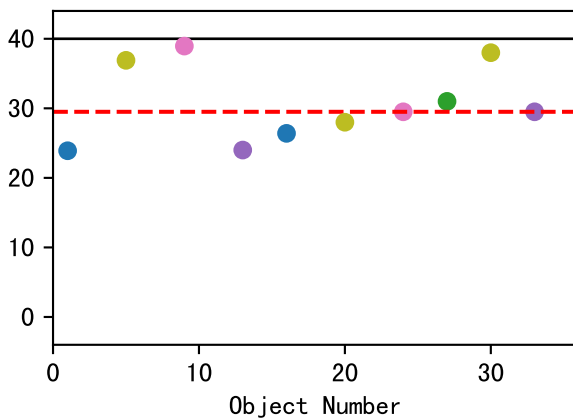
LfA_avgAbsY (Def=na Set=0.04)
avg1=0.04~35% avg2=na



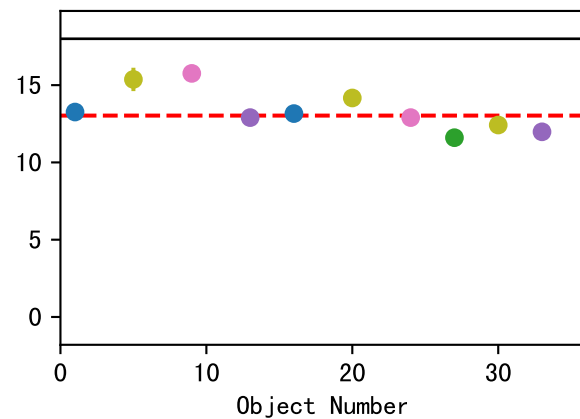
LfL_avgAbsY (Def=na Set=31.0)
avg1=31.0~19% avg2=na



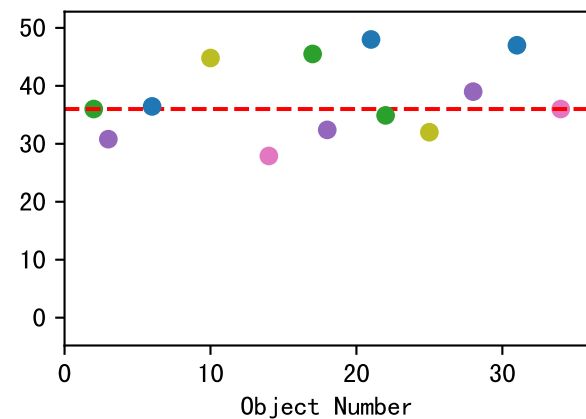
LfL_Q90AbsY (Def=40 Set=29.5)
avg1=29.5~19% avg2=na



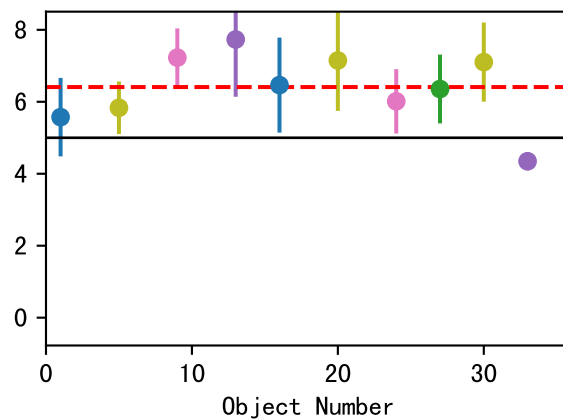
NdD_Q90AbsY (Def=18 Set=13.03)
avg1=13.03~10% avg2=na



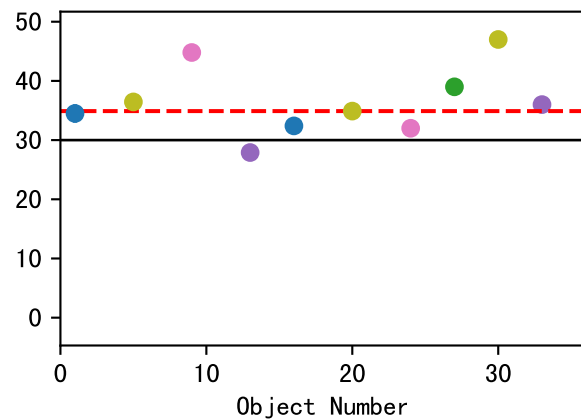
LfW_avgAbsY (Def=na Set=36.0)
avg1=36.0~18% avg2=na



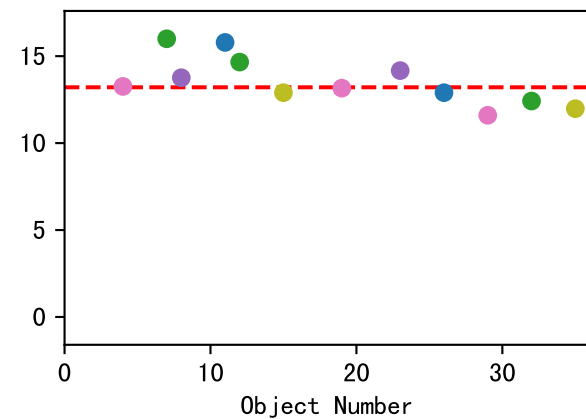
NdL_Q90AbsY (Def=5 Set=6.41)
avg1=6.41~15% avg2=na



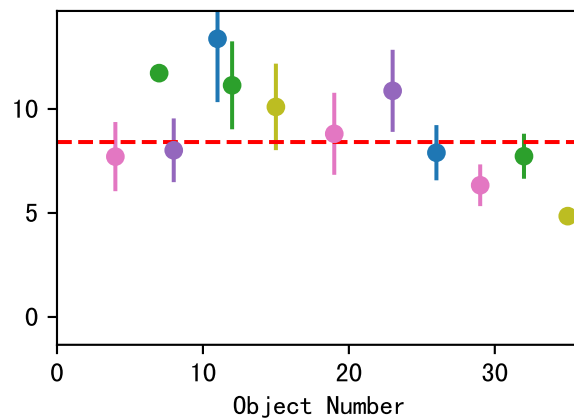
LfW_Q90AbsY (Def=30 Set=34.9)
avg1=34.9~14% avg2=na



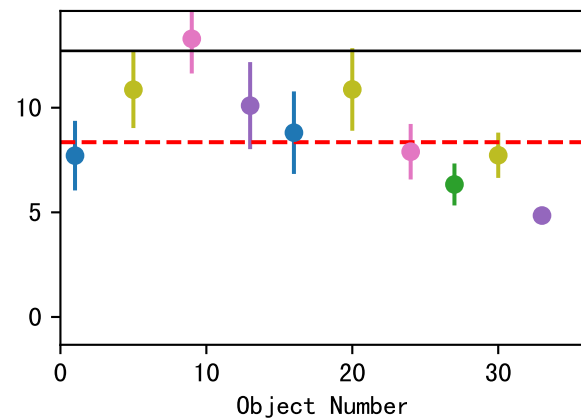
NdD_avgAbsY (Def=na Set=13.21)
avg1=13.21~11% avg2=na



NdV_avgAbsY (Def=na Set=8.41)
avg1=8.41~29% avg2=na

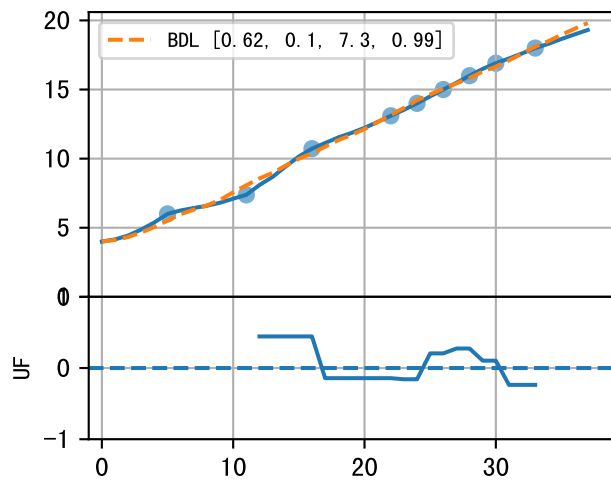


NdV_Q90AbsY (Def=12.72 Set=8.35)
avg1=8.35~30% avg2=na

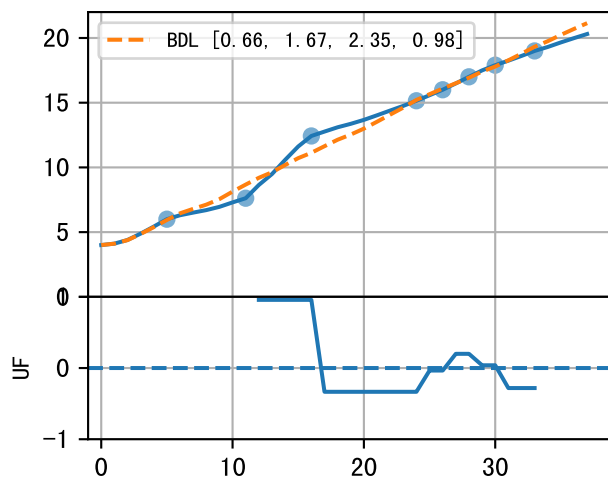


N_{DN}

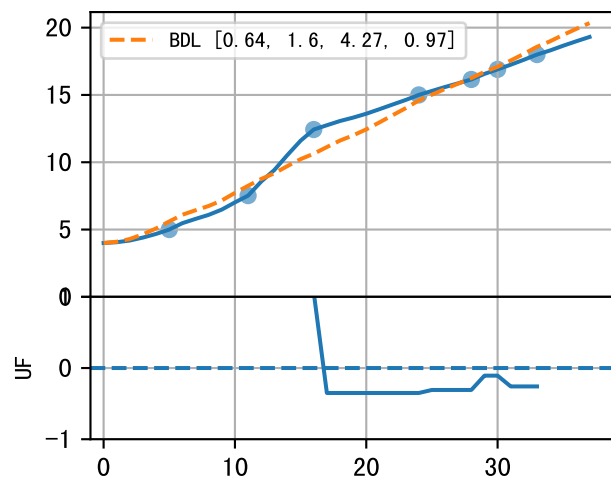
P3-009-13 (fit failed)



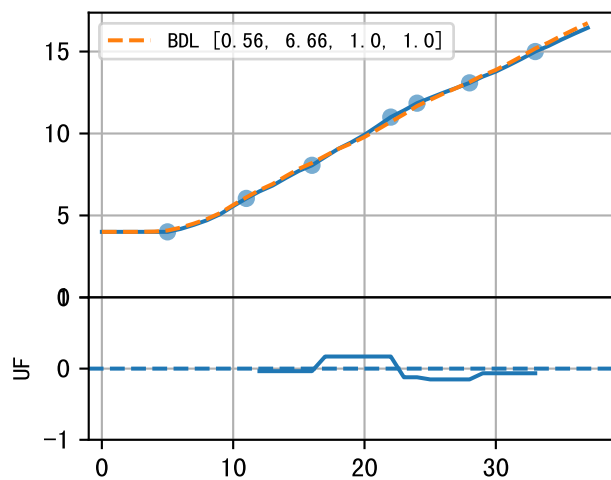
P3-021-19 (fit failed)



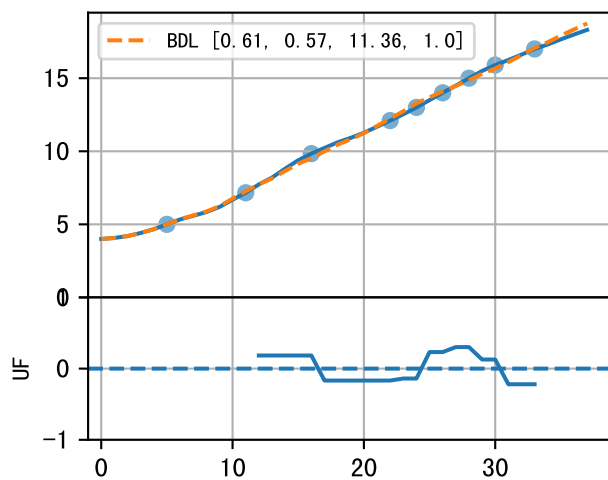
P3-034-5 (fit failed)



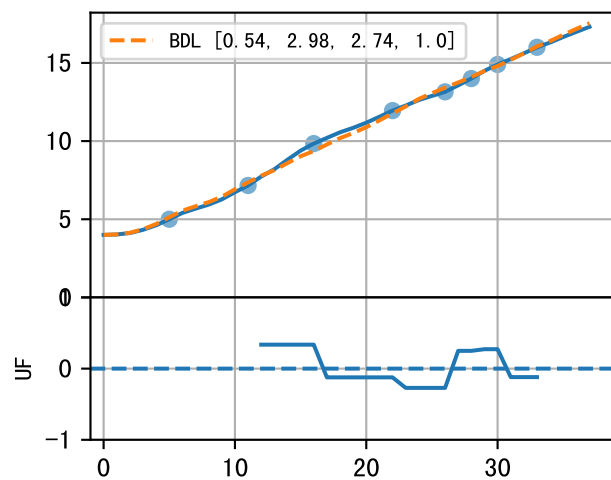
P3-045-17 (fit failed)



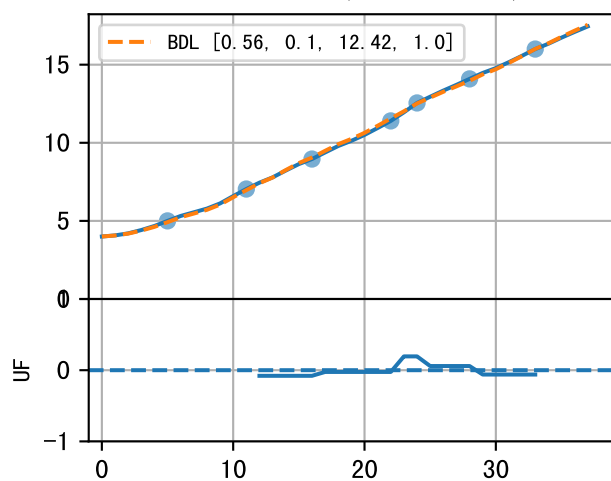
P3-054-28 (fit failed)



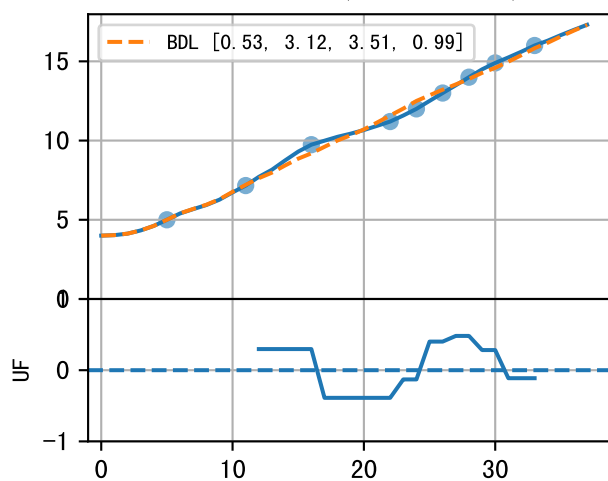
P3-068-4 (fit failed)



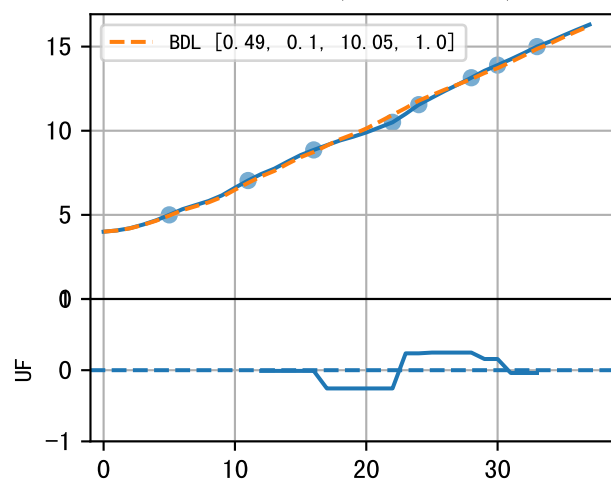
P3-075-19 (fit failed)



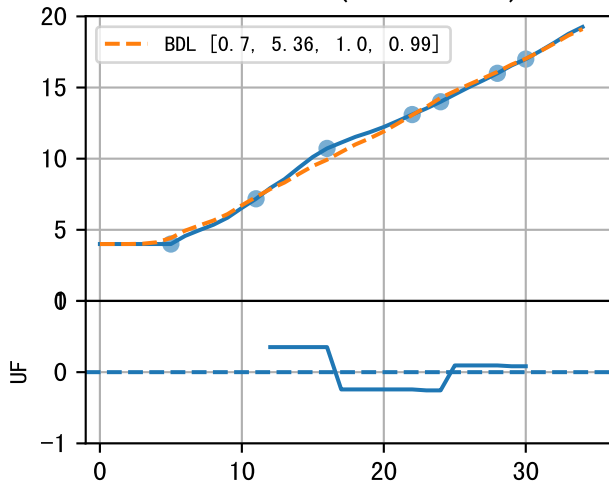
P3-084-11 (fit failed)



P3-099-4 (fit failed)



P3-110-23 (fit failed)



P3avg (fit failed)

NdN

BDL [0.58, 3.64, 1.91, 1.0]

UF

15

10

5

0

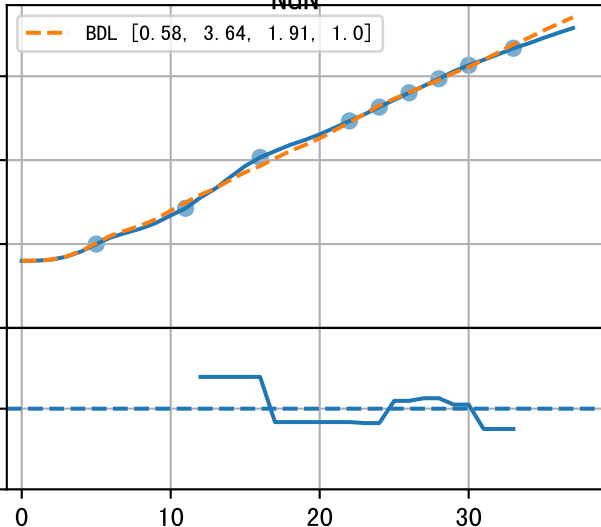
-1

0

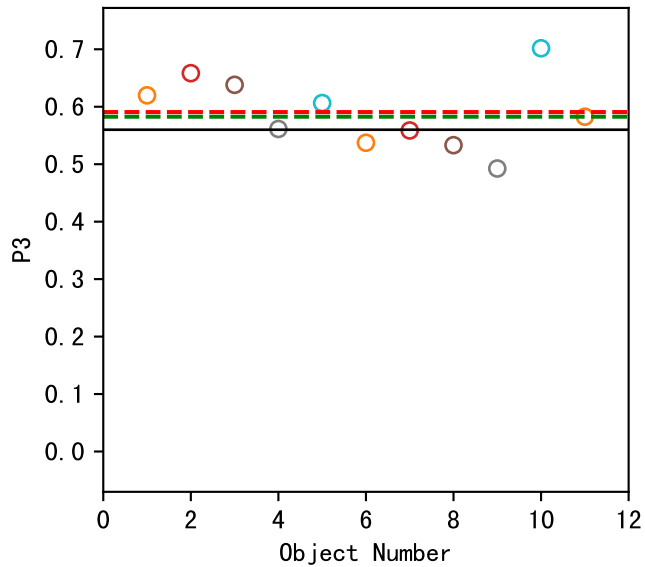
10

20

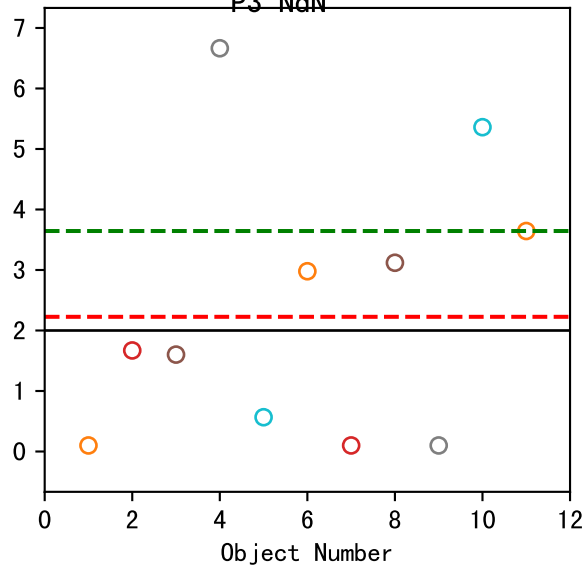
30



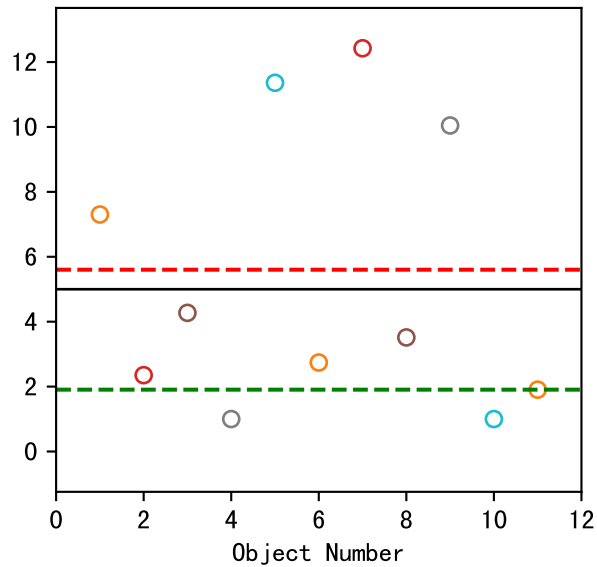
a (Def=0.56 Set=0.58)
avg1=0.59(fail) avg2=0.58



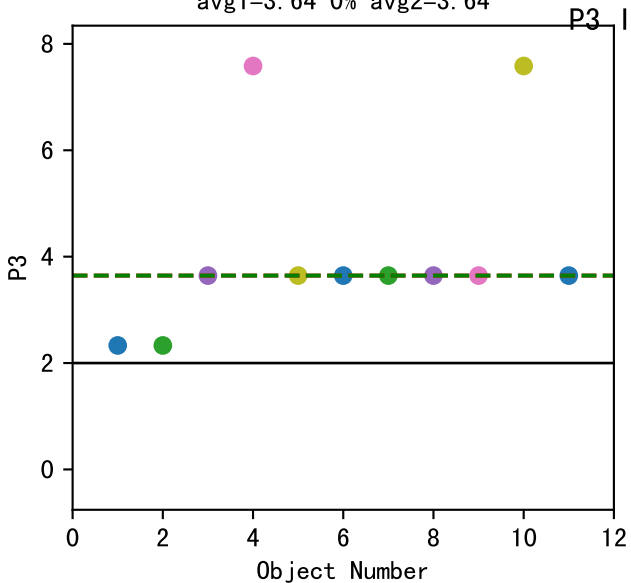
dm (Def=2 Set=3.64)
avg1=2.23(fail) avg2=3.64



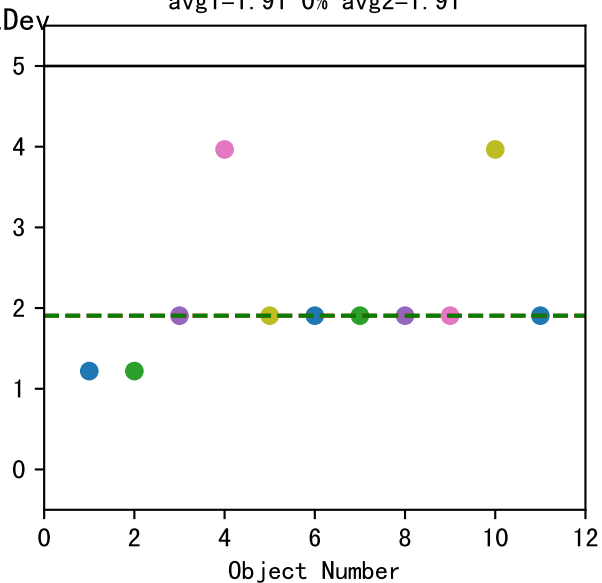
de (Def=5 Set=1.91)
avg1=5.6(fail) avg2=1.91



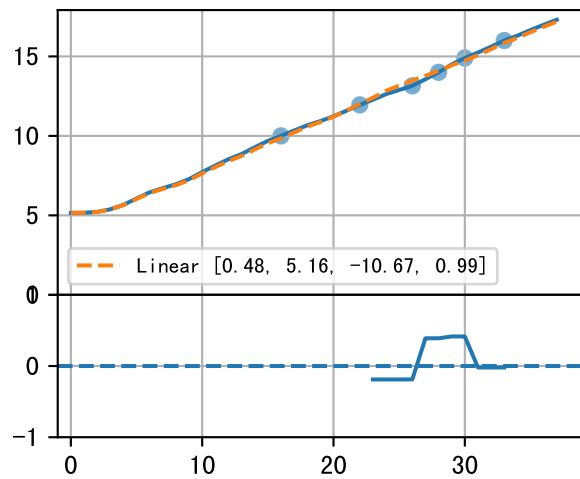
InitDev_dm (Def=2 Set=3.64)
avg1=3.64~0% avg2=3.64



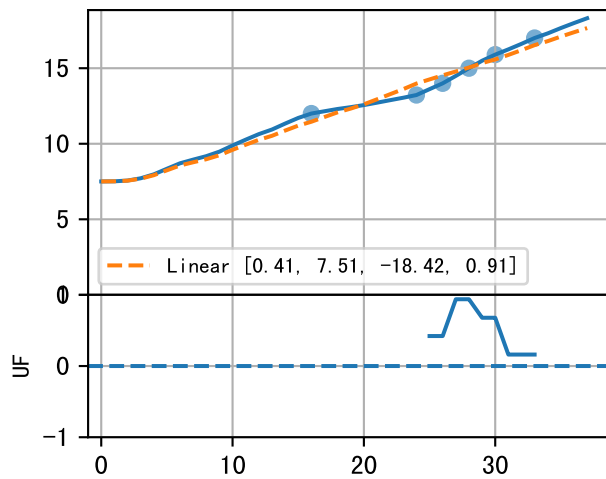
InitDev_de (Def=5 Set=1.91)
avg1=1.91~0% avg2=1.91



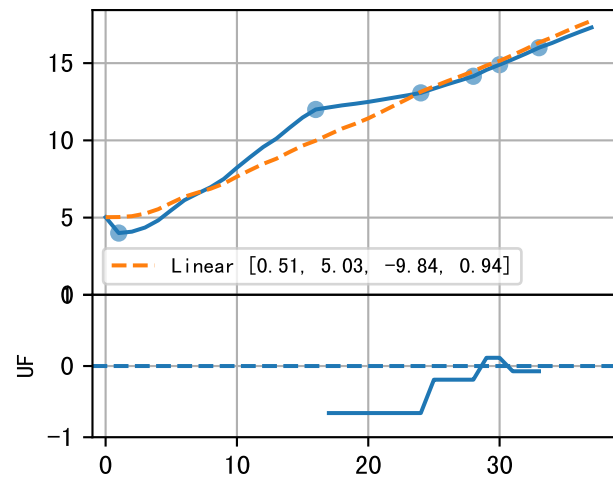
P3-009-13



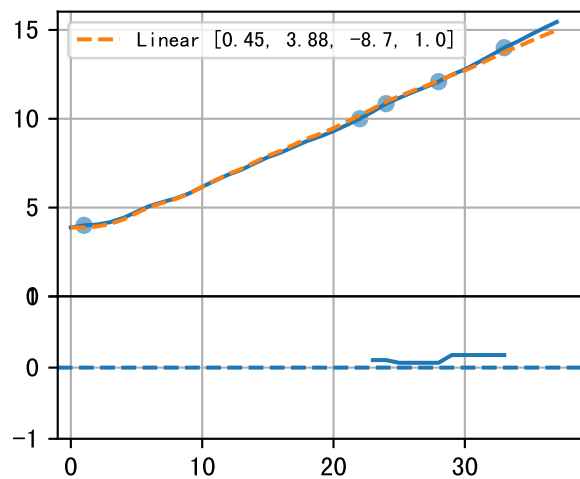
P3-021-19



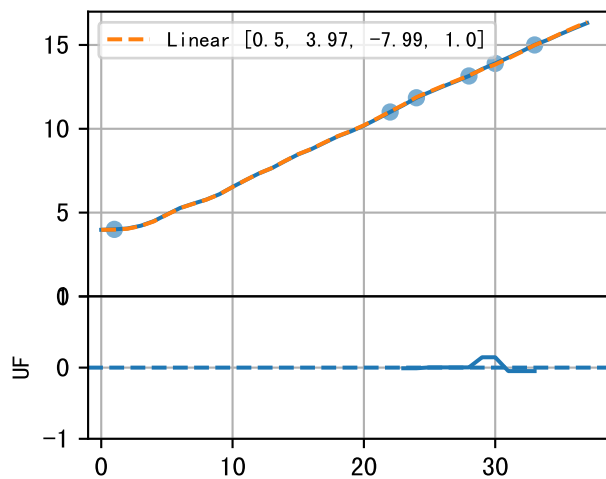
P3-034-5



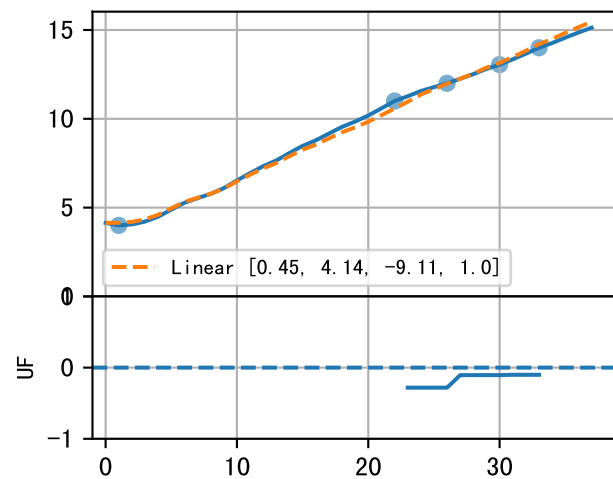
P3-045-17



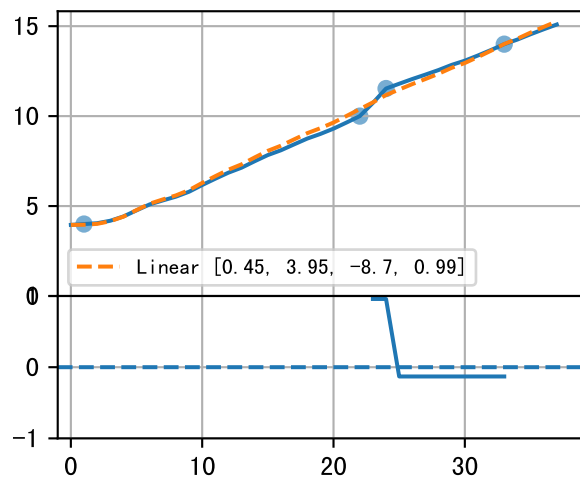
P3-054-28



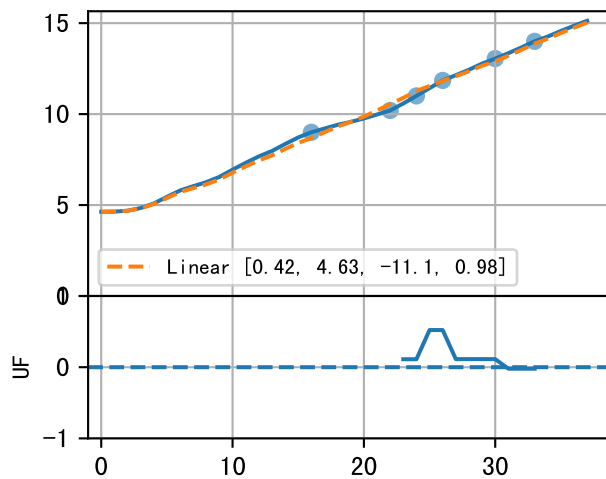
P3-068-4



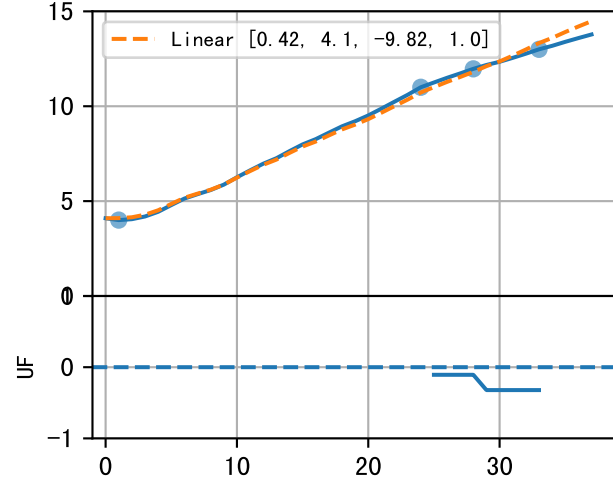
P3-075-19



P3-084-11

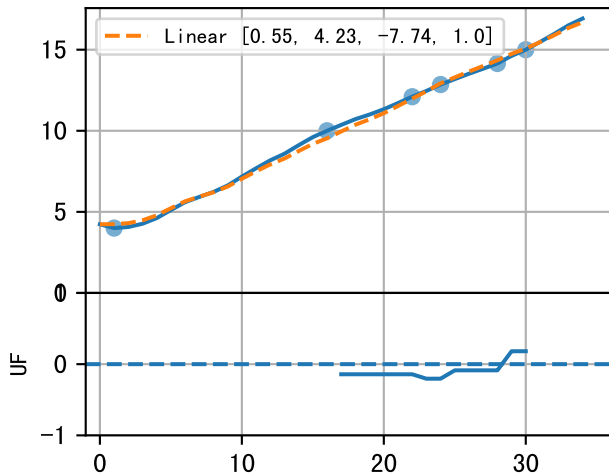


P3-099-4



P3-110-23

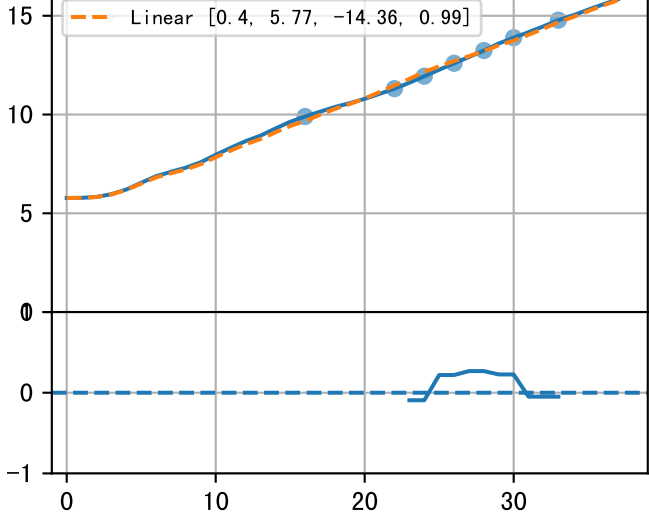
LfN

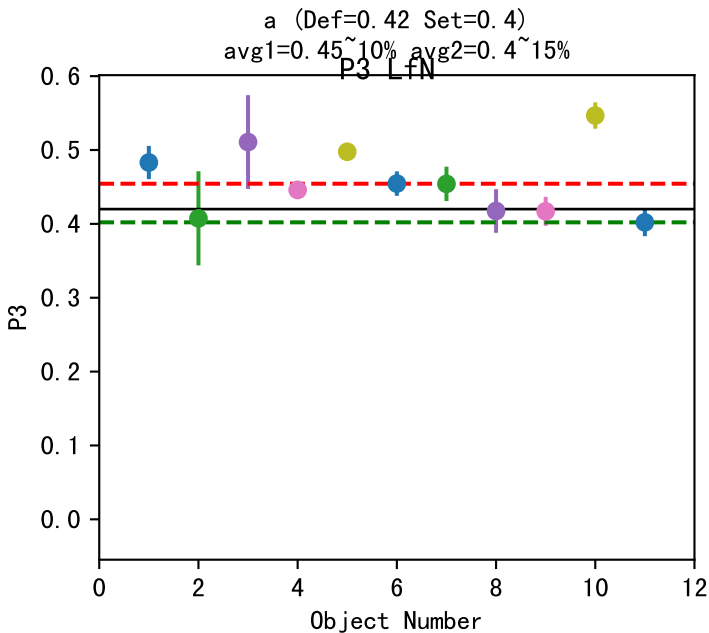


P3avg
LfN

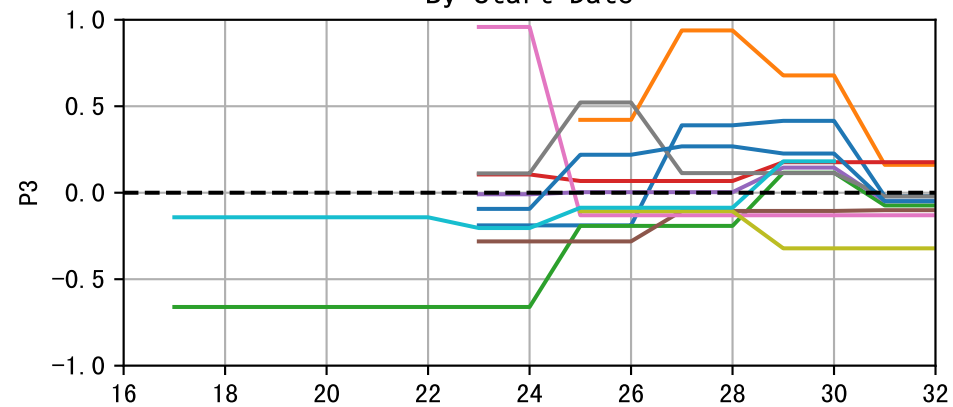
Linear [0.4, 5.77, -14.36, 0.99]

UF

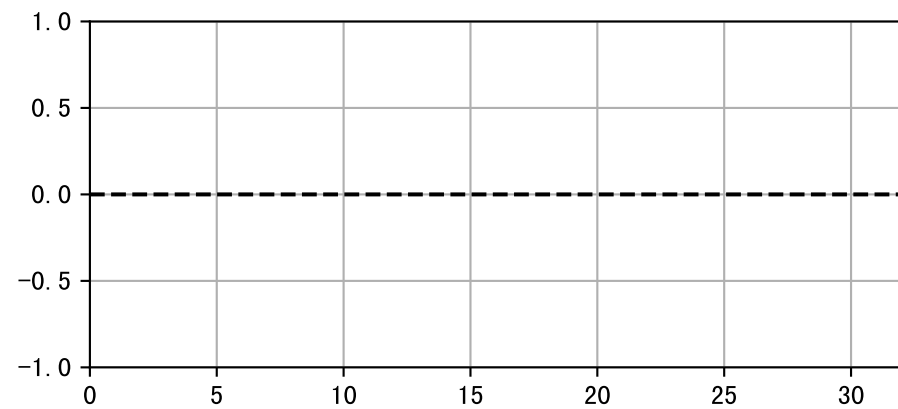
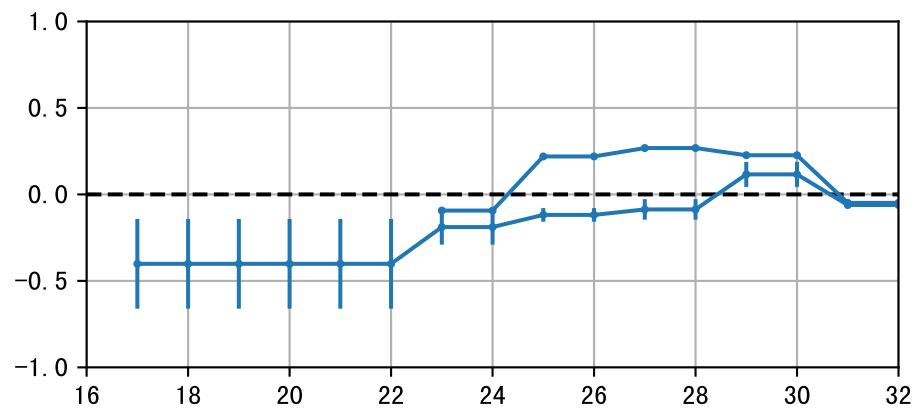
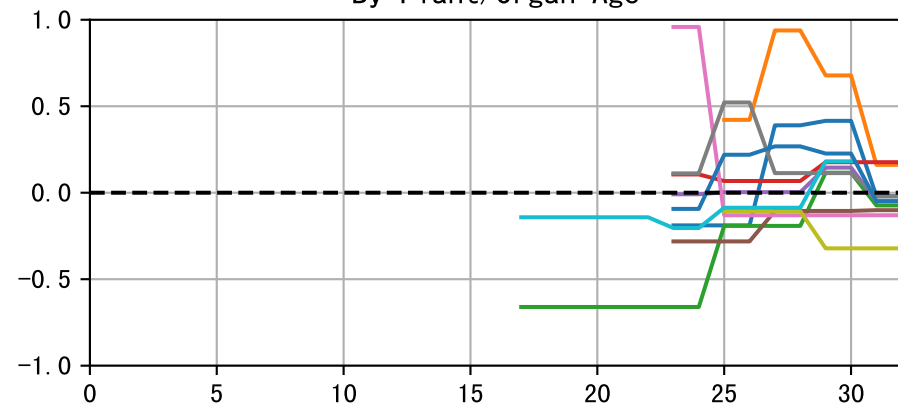




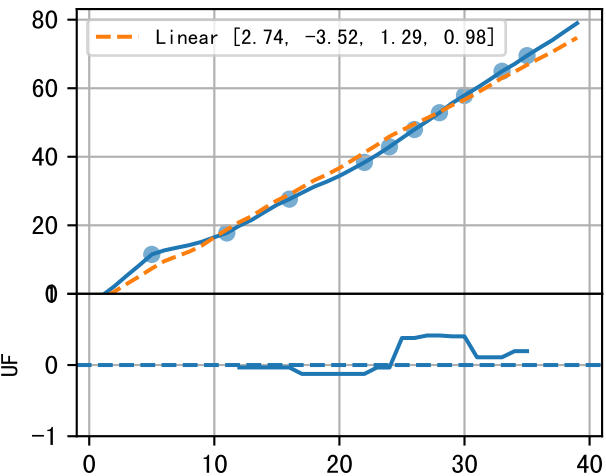
By Start Date



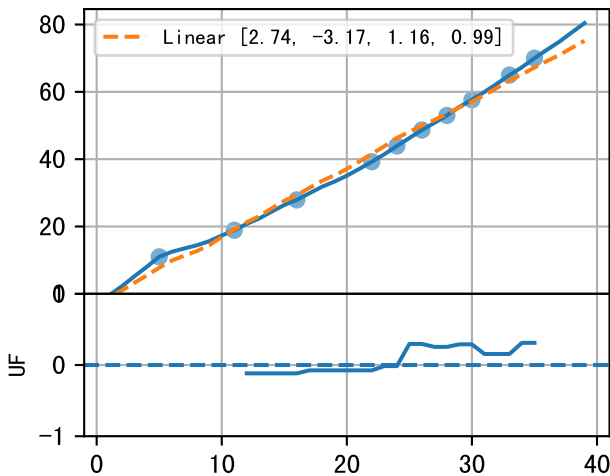
By Plant/Organ Age



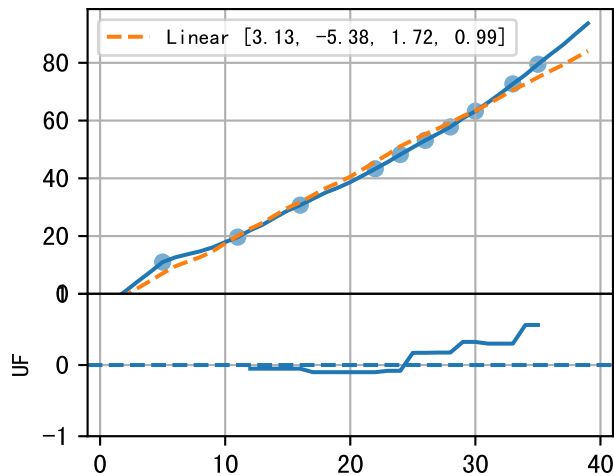
P3-009-13



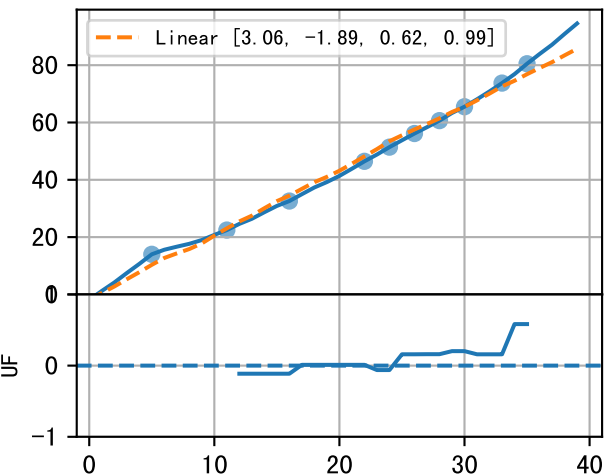
P3-021-19



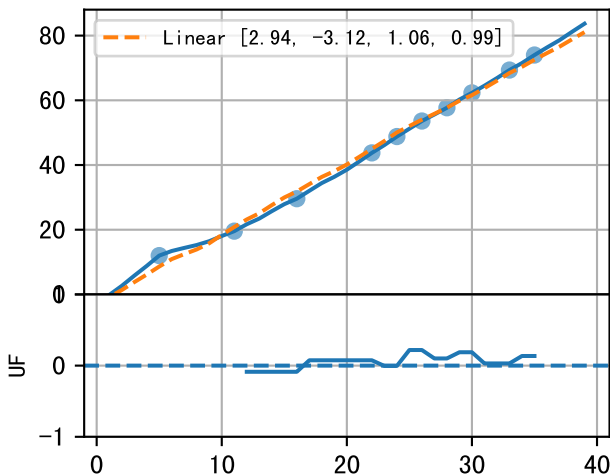
P3-034-5



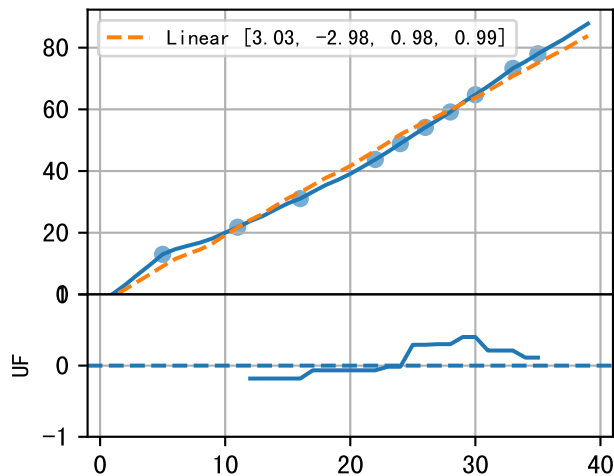
P3-045-17



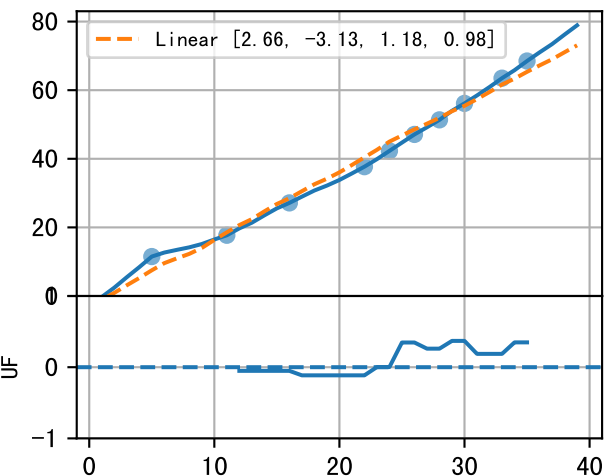
P3-054-28



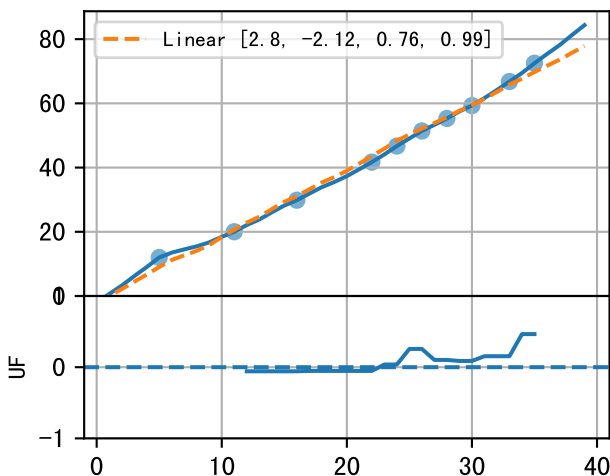
P3-068-4



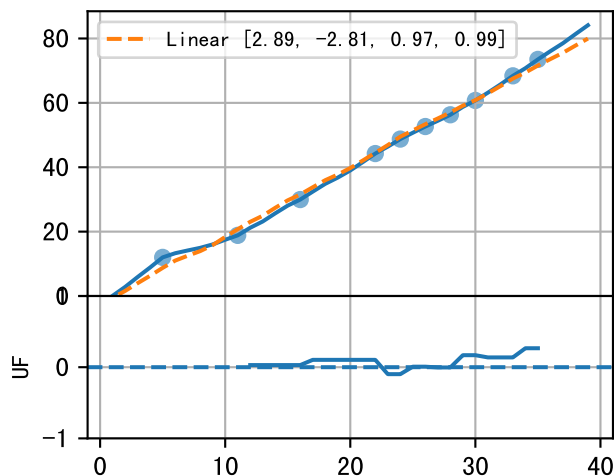
P3-075-19



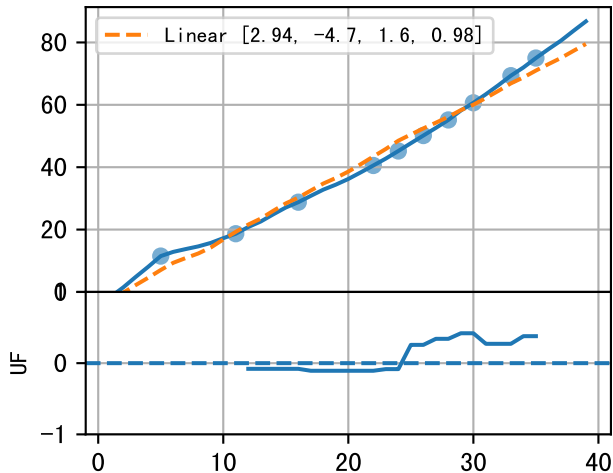
P3-084-11



P3-099-4

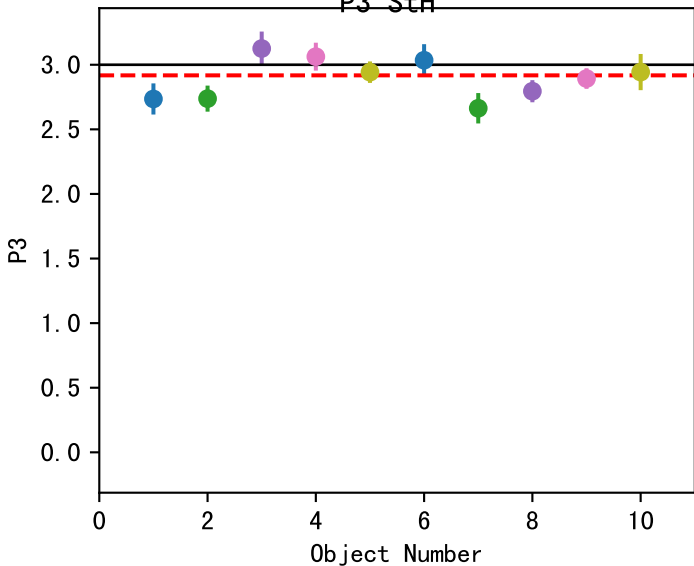


P3-110-23



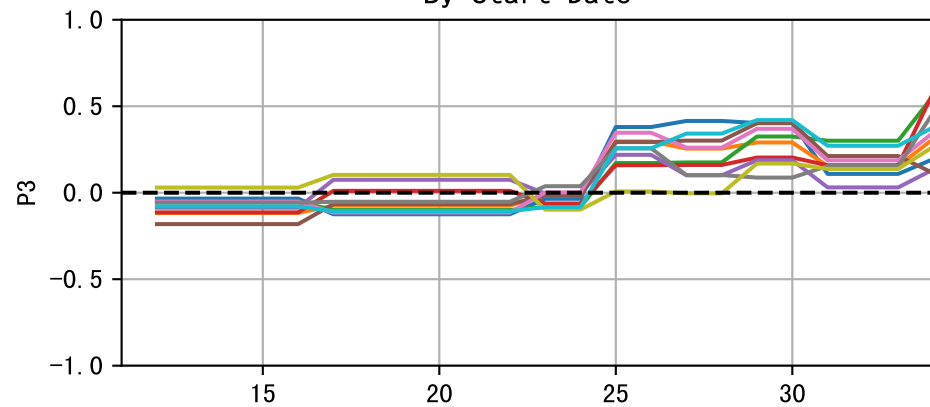
a (Def=3 Set=2.92)
avg1=2.92~5% avg2=na

P3 StH

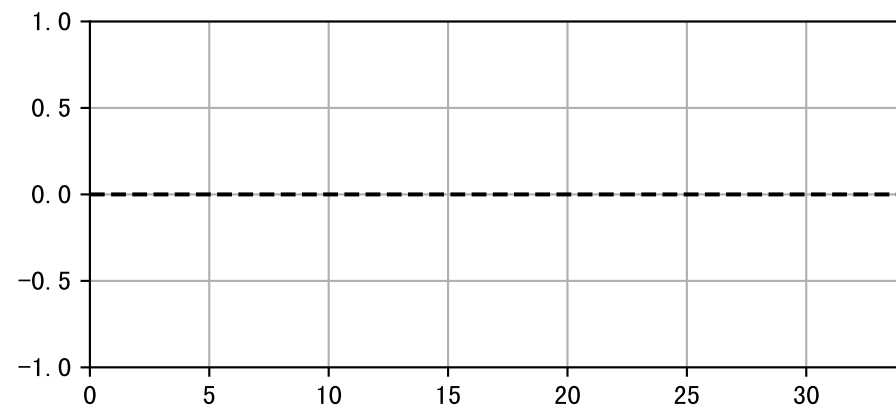
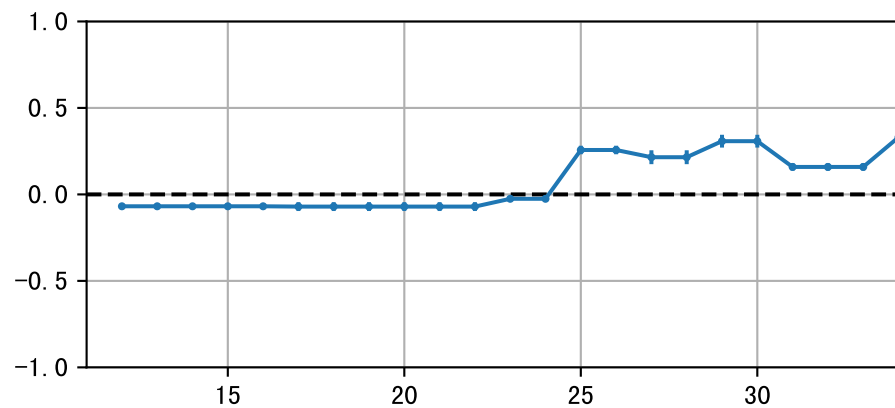
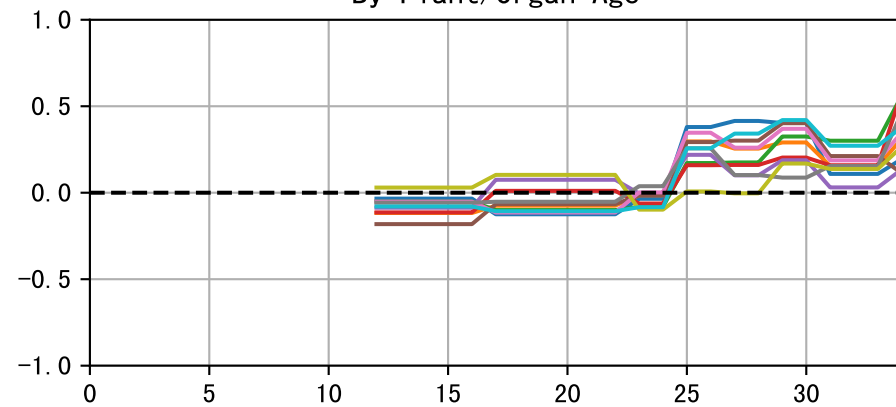


StH

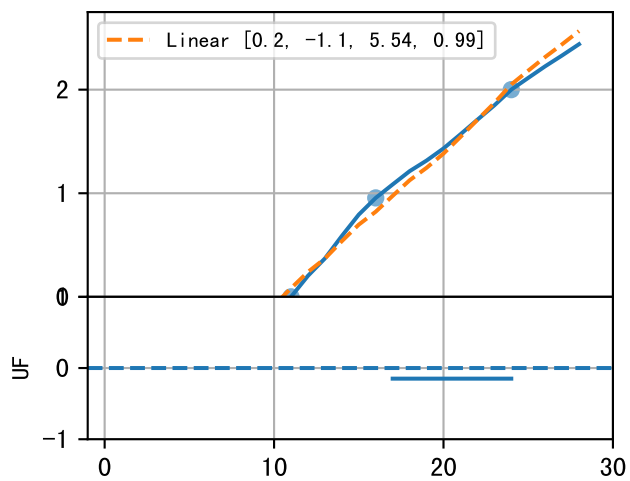
By Start Date



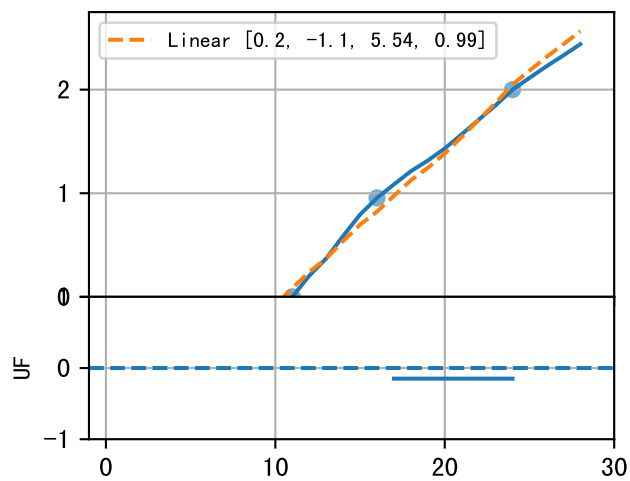
By Plant/Organ Age



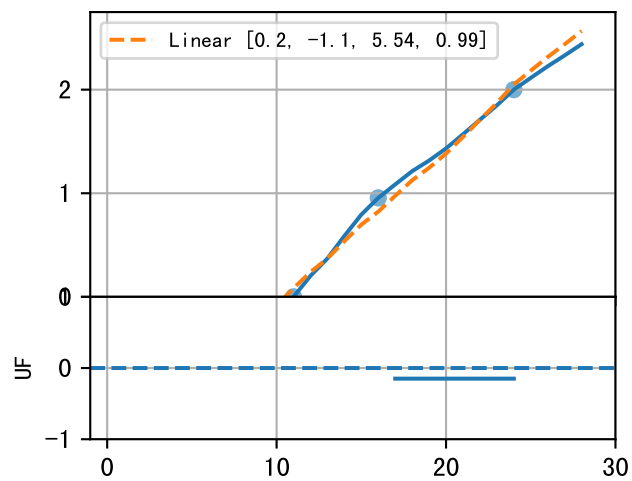
P3-009-13



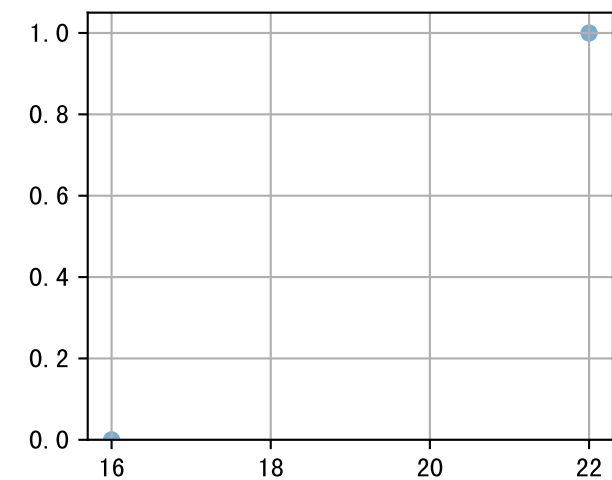
P3-021-19



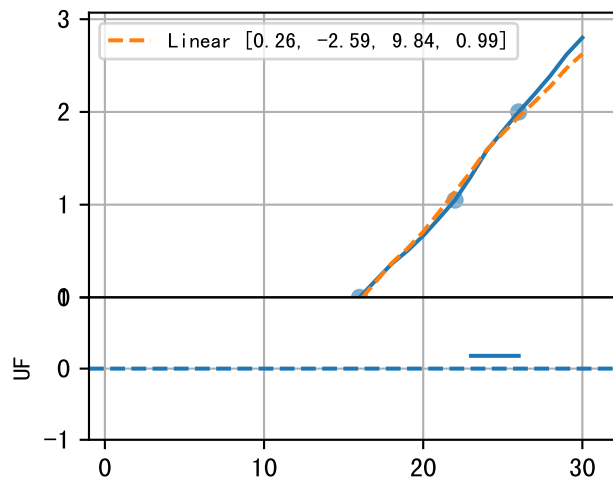
P3-034-5



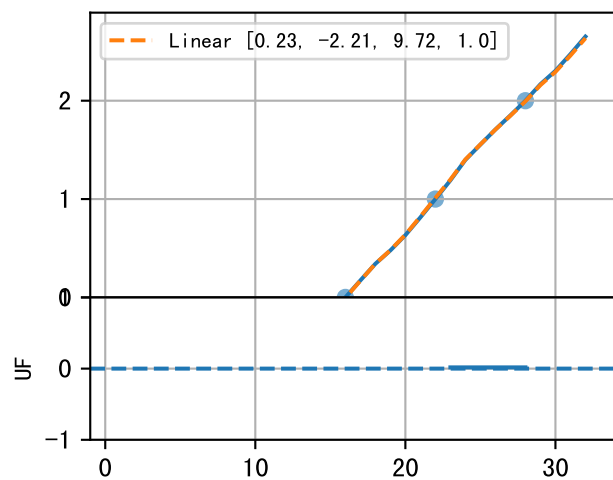
P3-045-17 (fit failed)



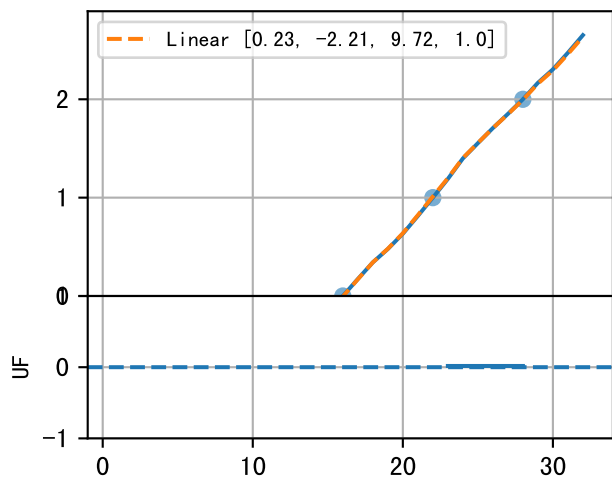
P3-054-28



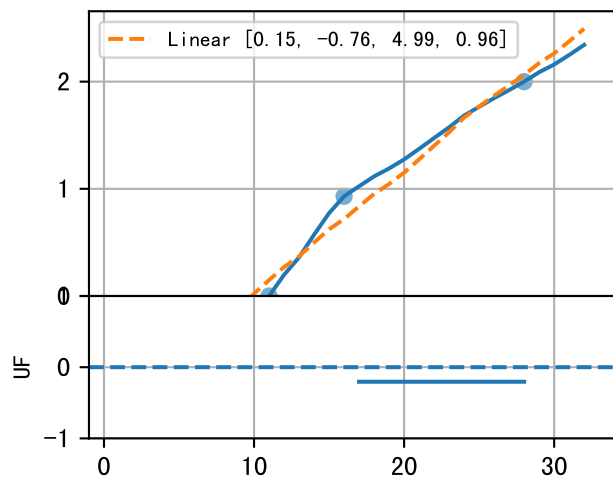
P3-068-4



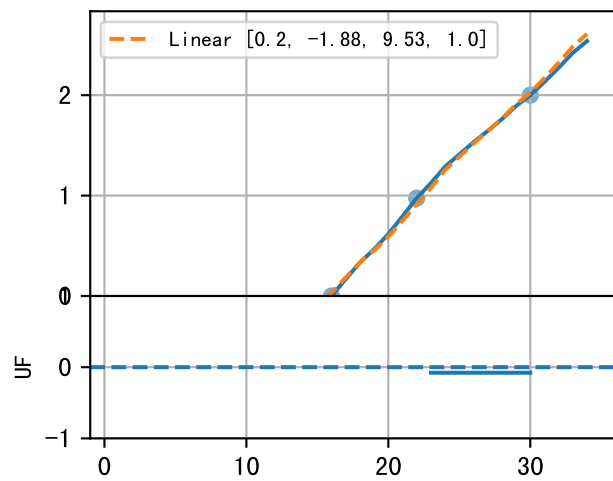
P3-075-19



P3-084-11

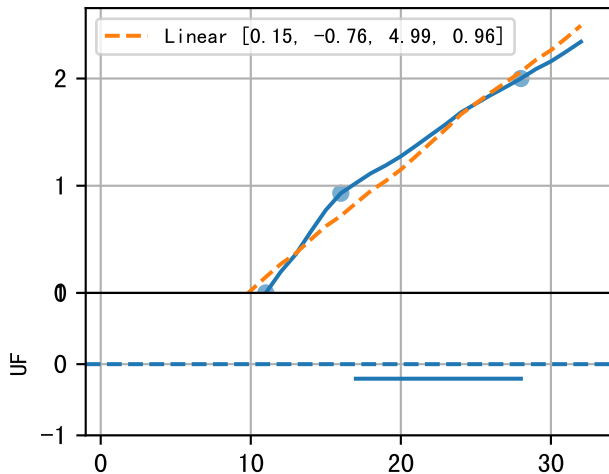


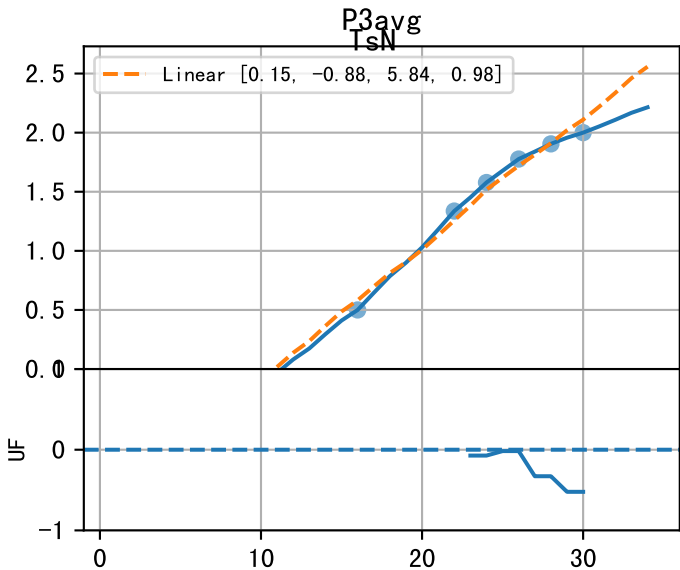
P3-099-4



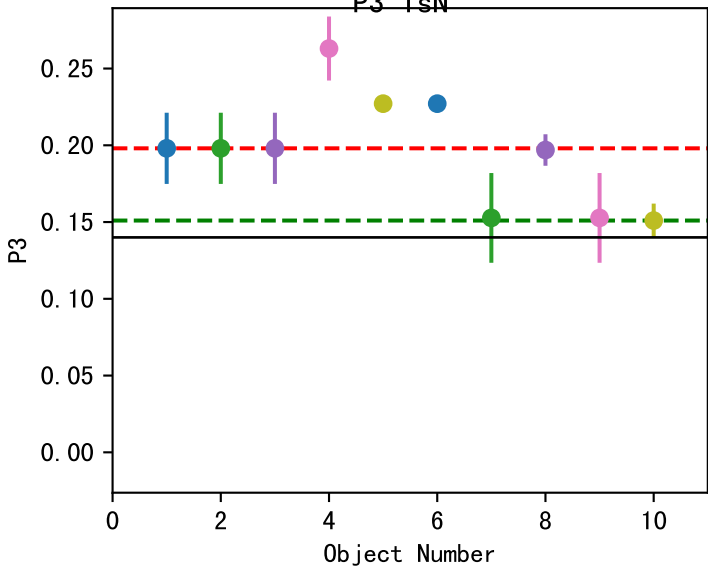
P3-110-23

TsN



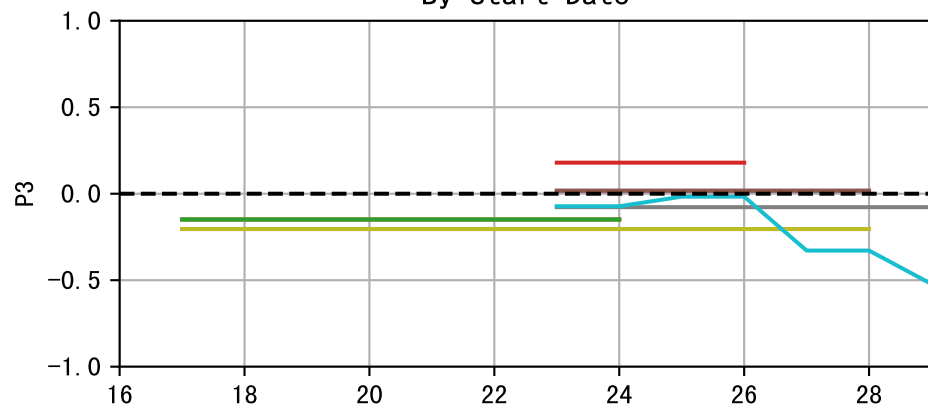


a (Def=0.14 Set=0.15)
 avg1=0.2~18% avg2=0.15~19%
 P3 TSN

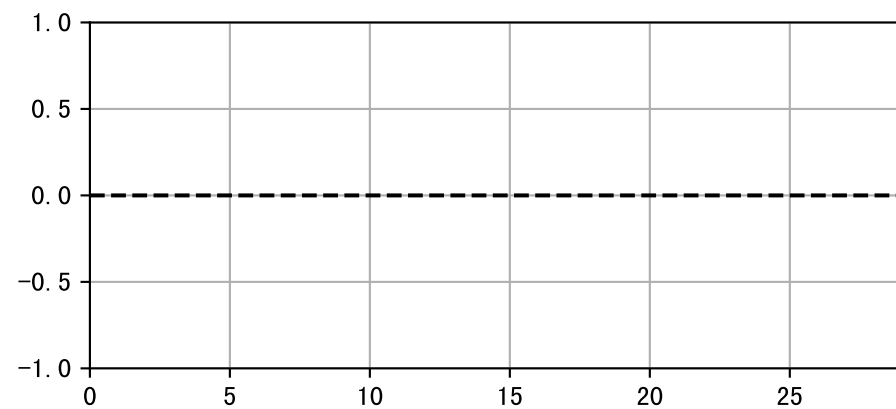
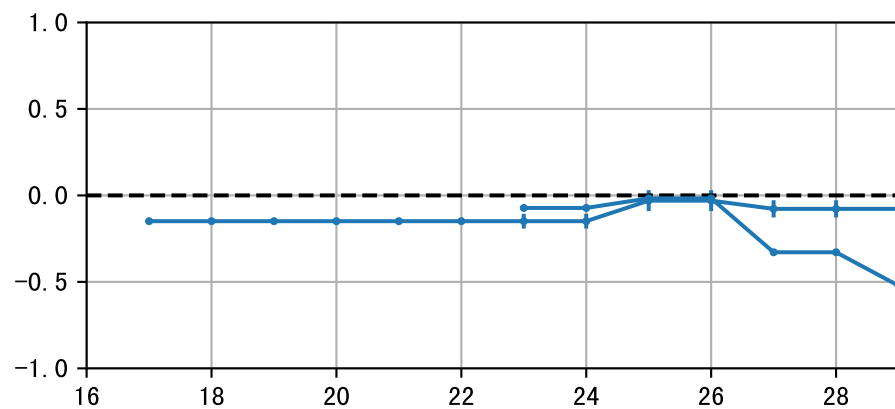
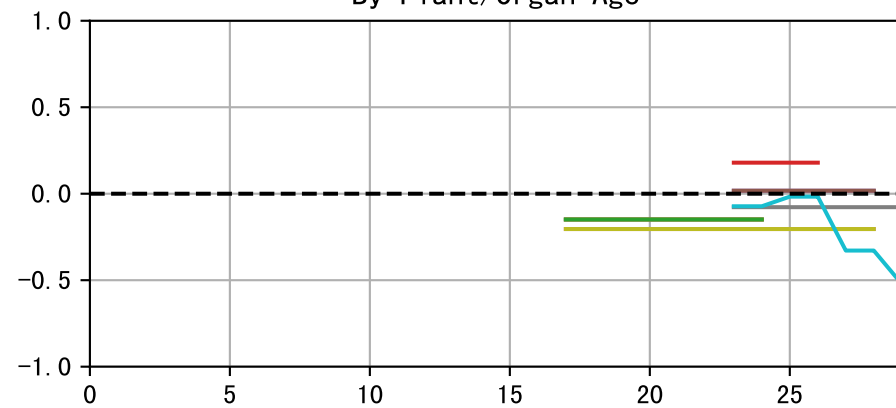


TsN

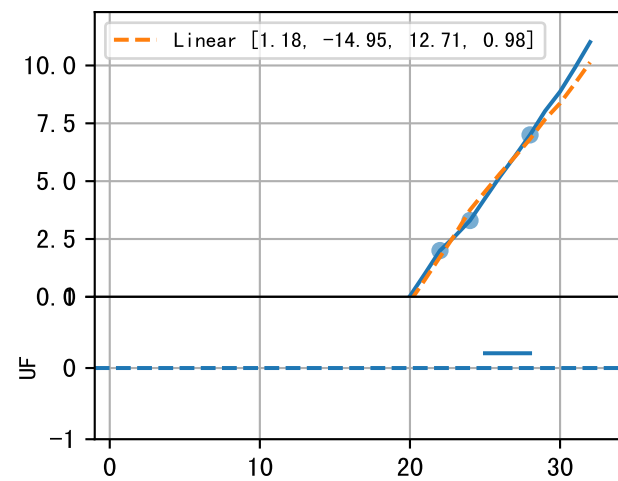
By Start Date



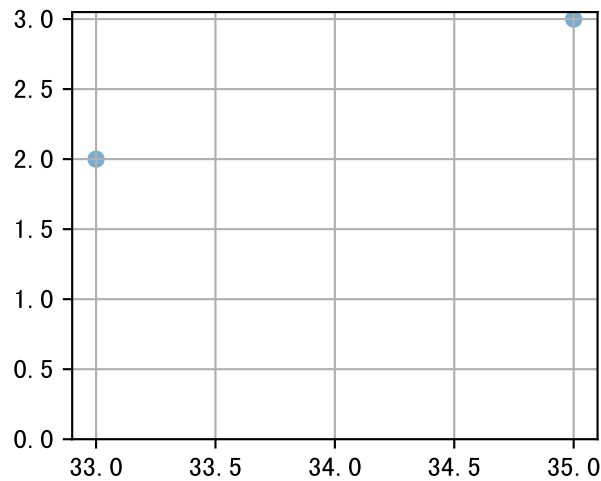
By Plant/Organ Age



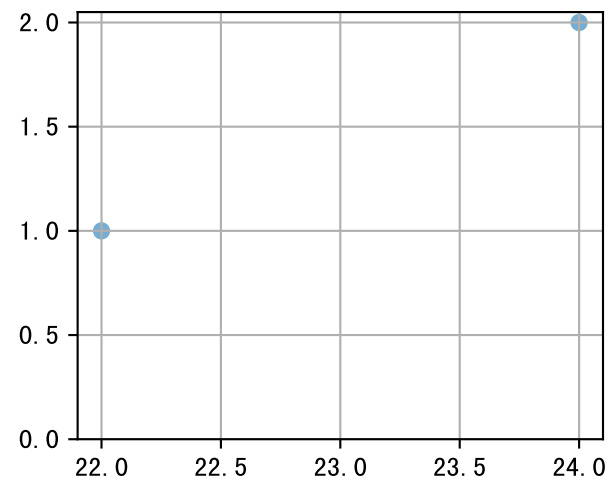
P3-009-13T1



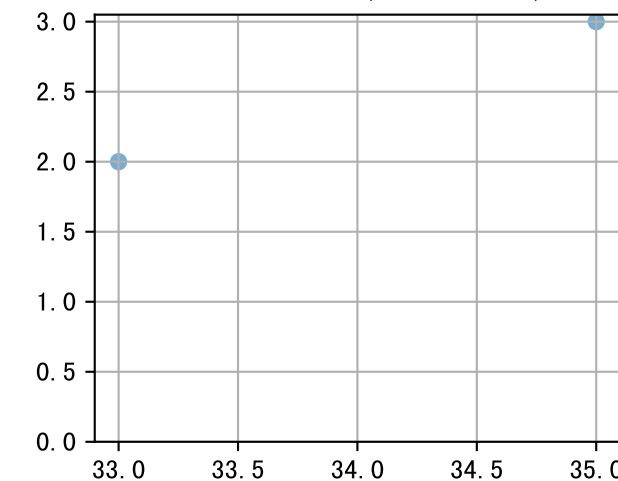
P3-009-13T2 (fit failed)



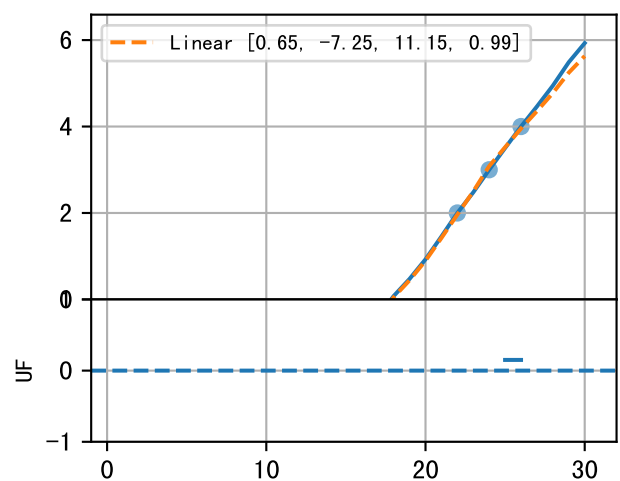
P3-021-19T1 (fit failed)



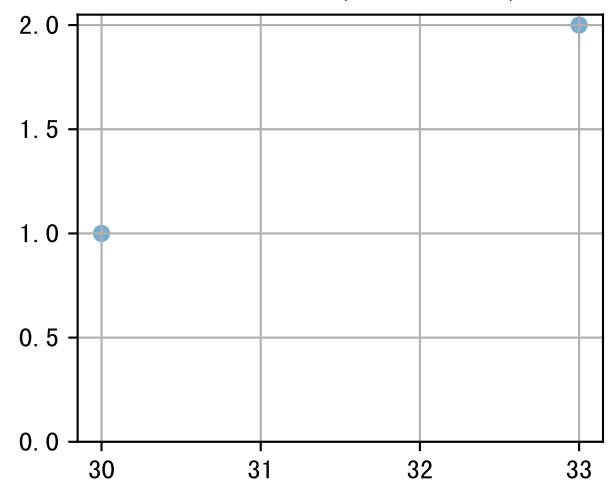
P3-021-19T2 (fit failed)



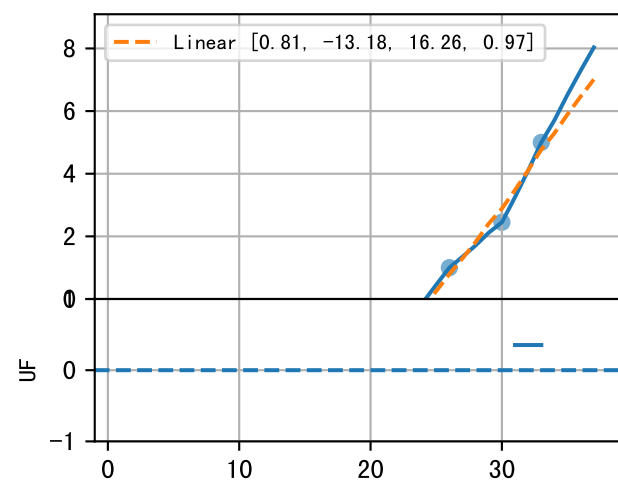
P3-034-5T1



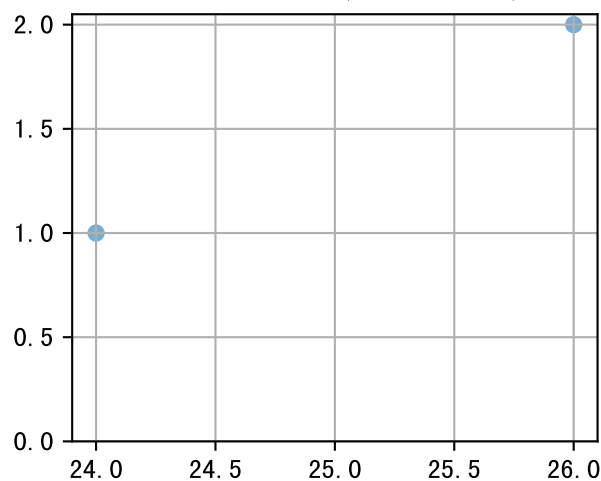
P3-034-5T2 (fit failed)



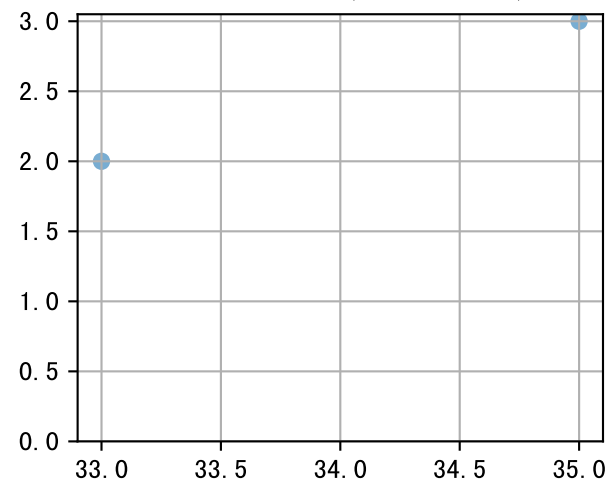
P3-045-17T1



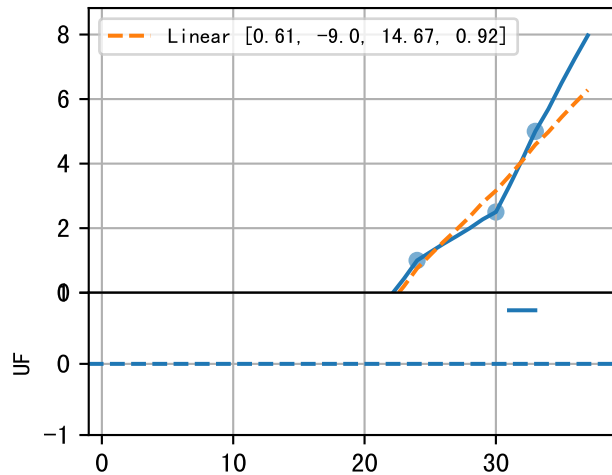
P3-054-28T1 (fit failed)



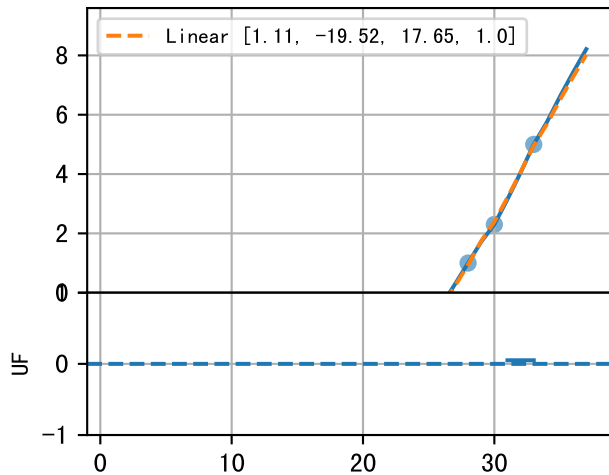
P3-054-28T2 (fit failed)



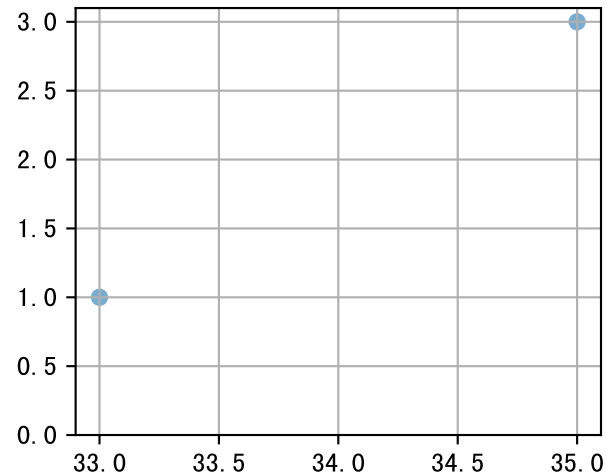
P3-068-4T1



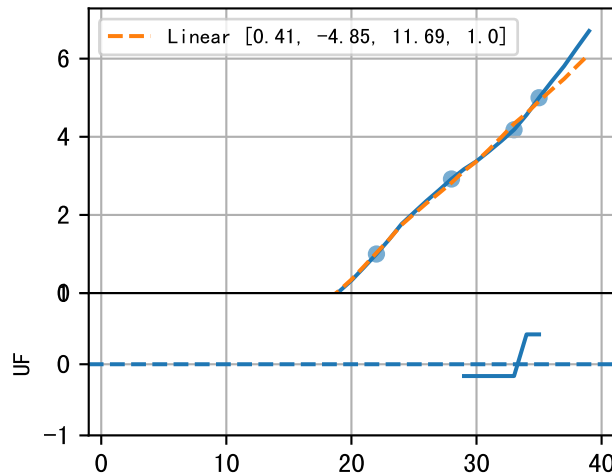
P3-075-19T1



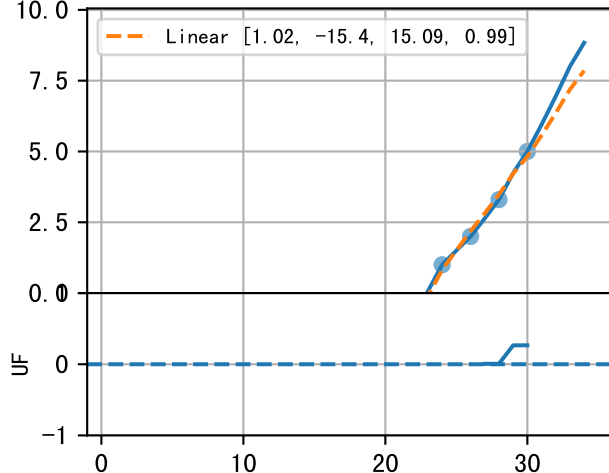
P3-075-19T2 (fit failed)



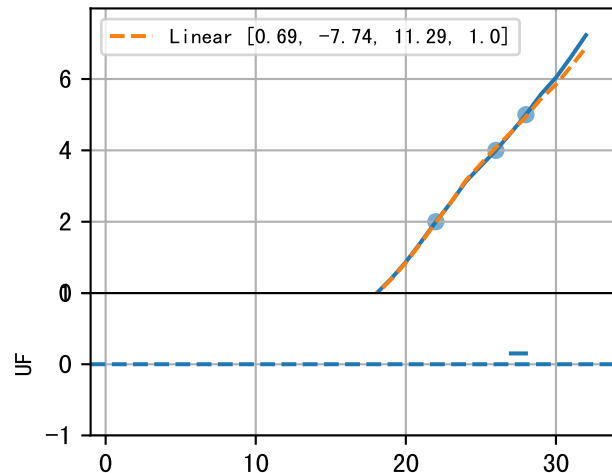
P3-084-11T1



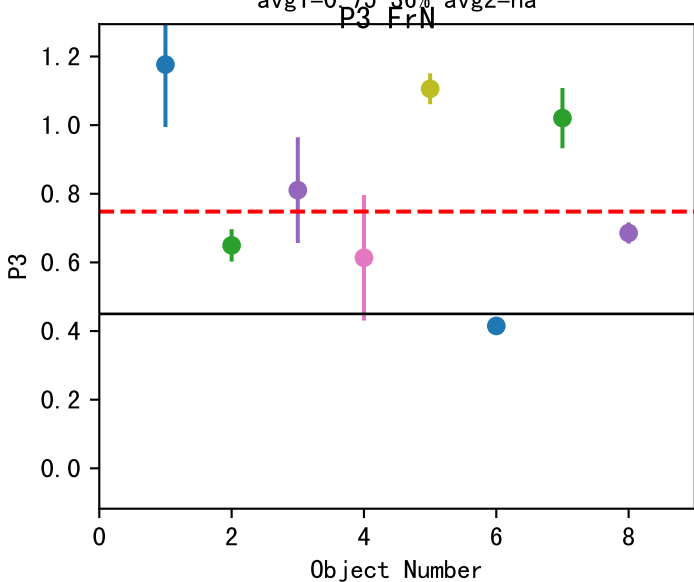
P3-099-4T1



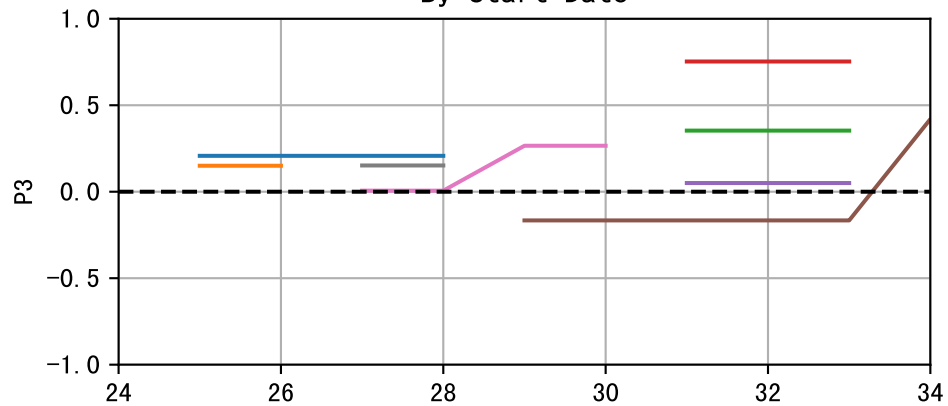
P3-110-23T1



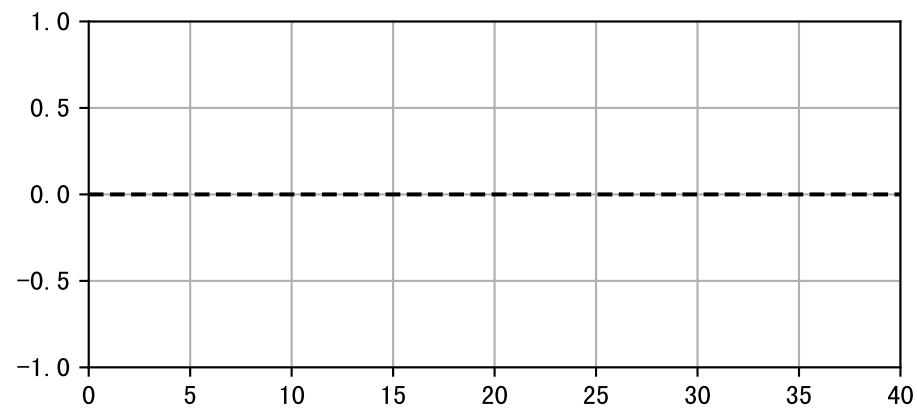
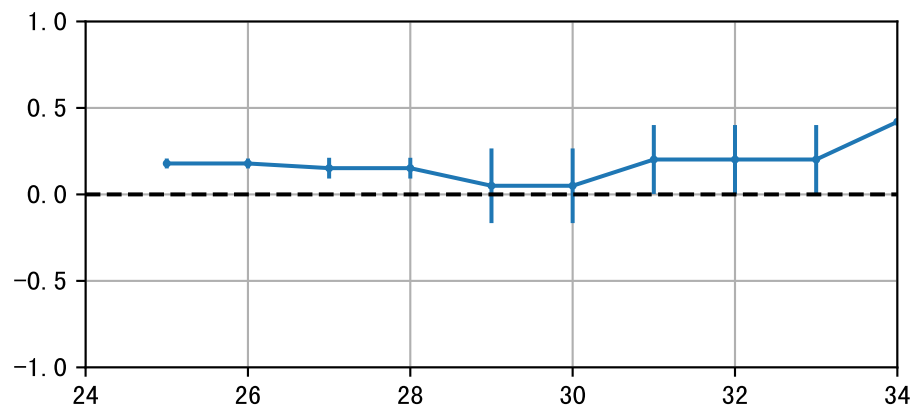
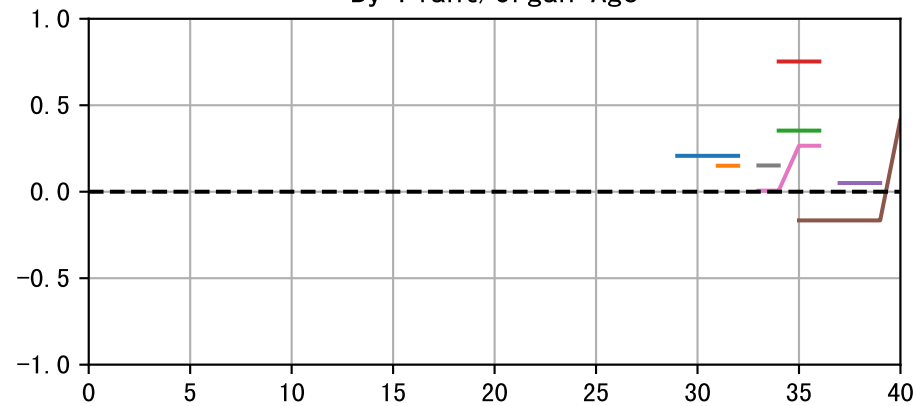
a (Def=0.45 Set=0.75)
avg1=0.75~36% avg2=na



By Start Date

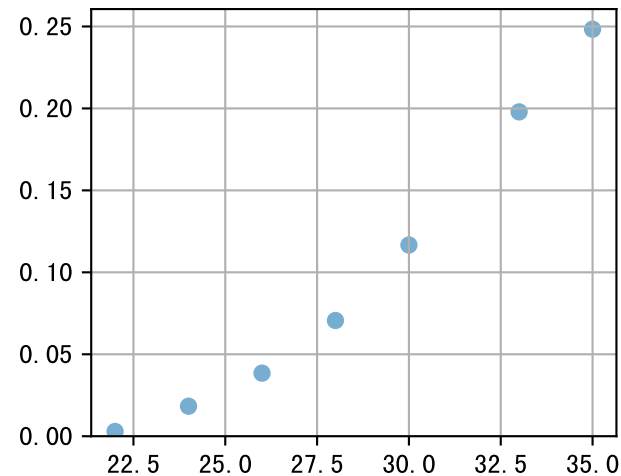


By Plant/Organ Age

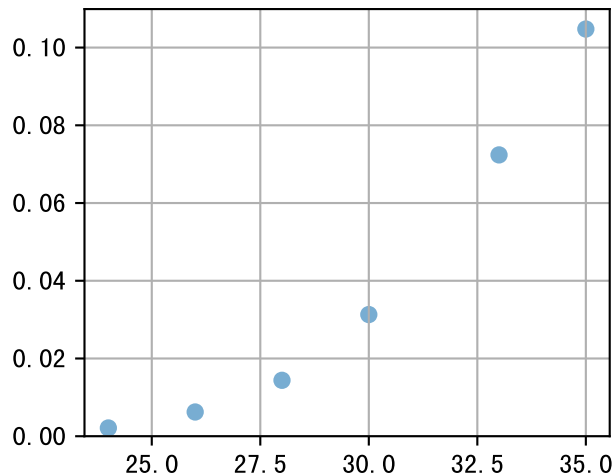


FrV

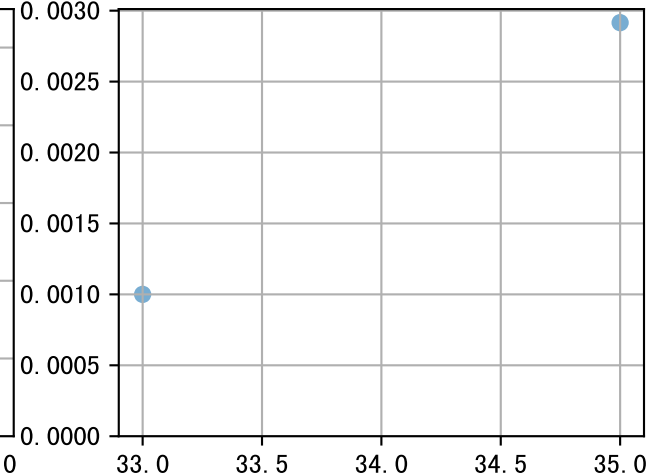
P3-009-13T1Fr1 (fit failed)



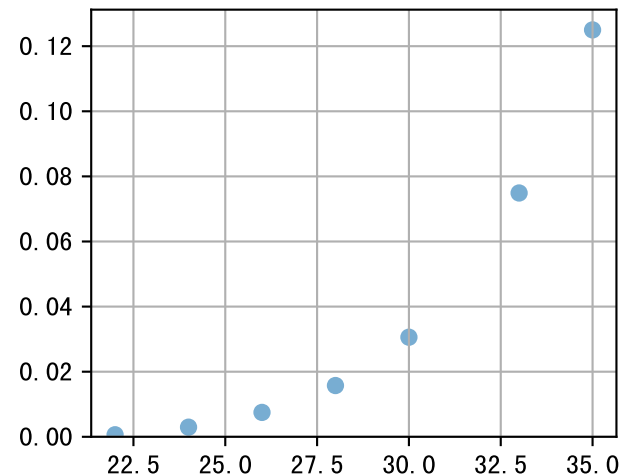
P3-009-13T1Fr5 (fit failed)



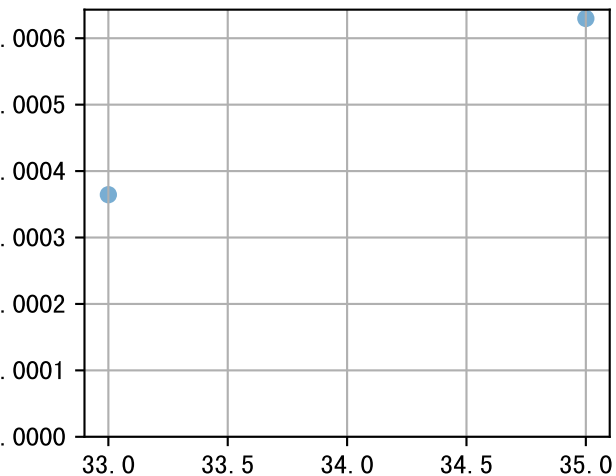
P3-009-13T2Fr1 (fit failed)



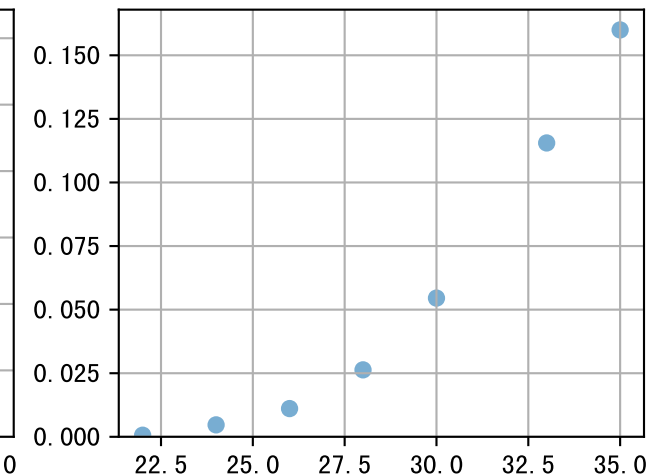
P3-021-19T1Fr1 (fit failed)



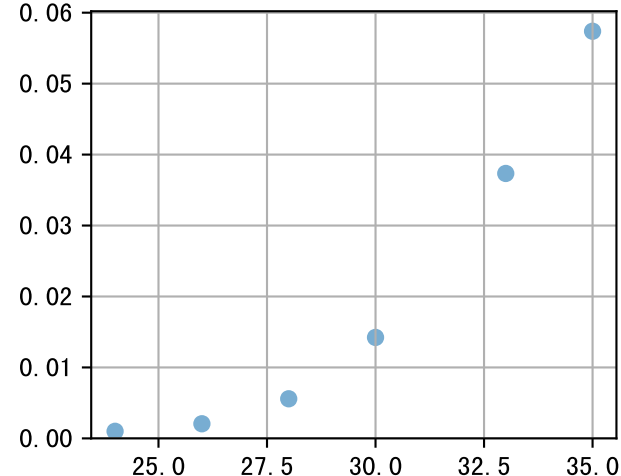
P3-021-19T2Fr1 (fit failed)



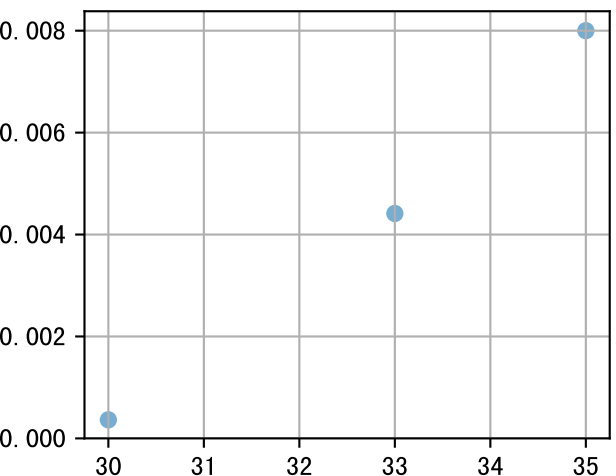
P3-034-5T1Fr1 (fit failed)



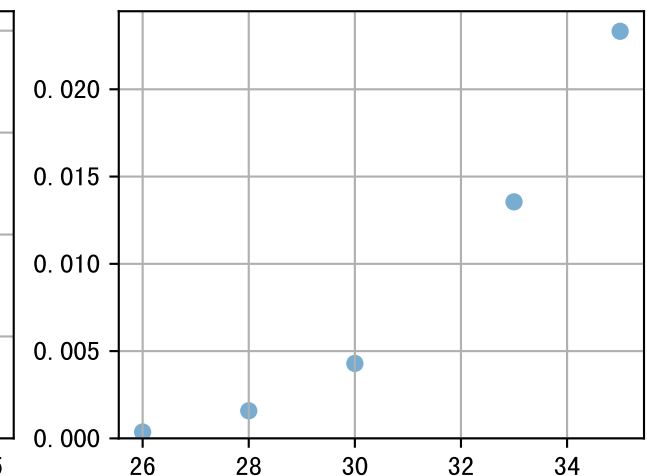
P3-034-5T1Fr5 (fit failed)



P3-034-5T2Fr1 (fit failed)

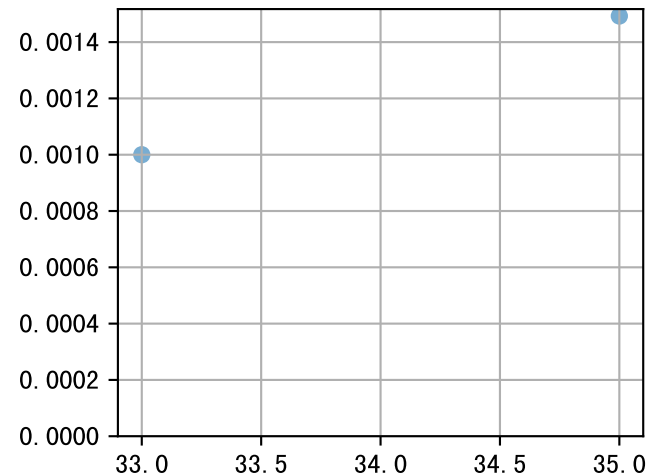


P3-045-17T1Fr1 (fit failed)

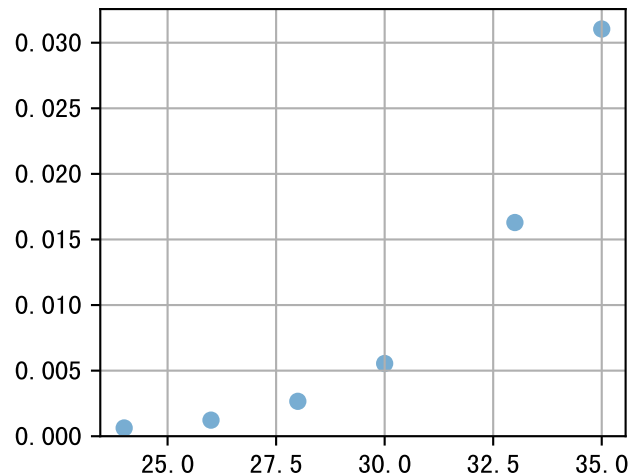


FrV

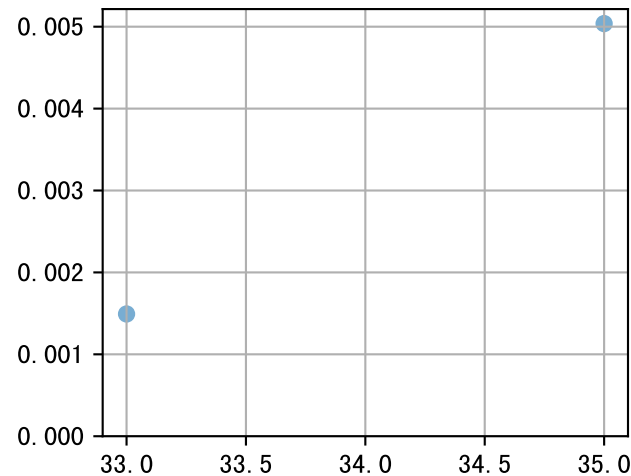
P3-045-17T1Fr5 (fit failed)



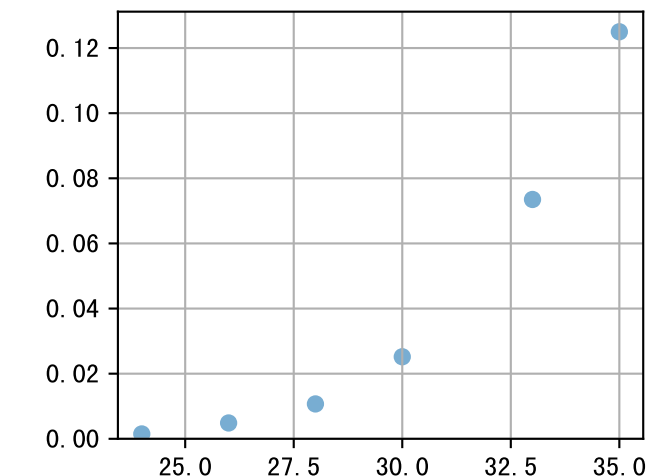
P3-054-28T1Fr1 (fit failed)



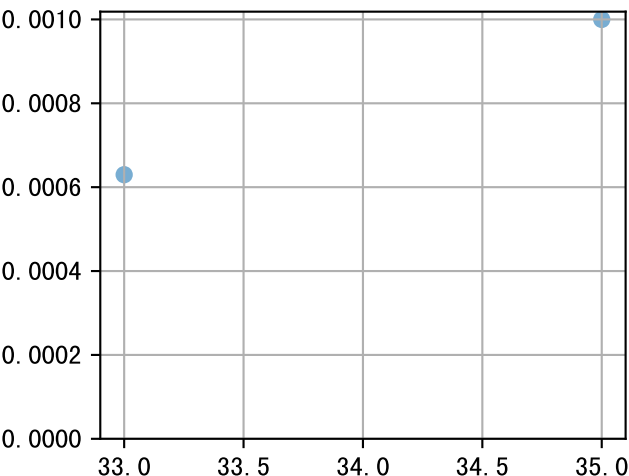
P3-054-28T2Fr1 (fit failed)



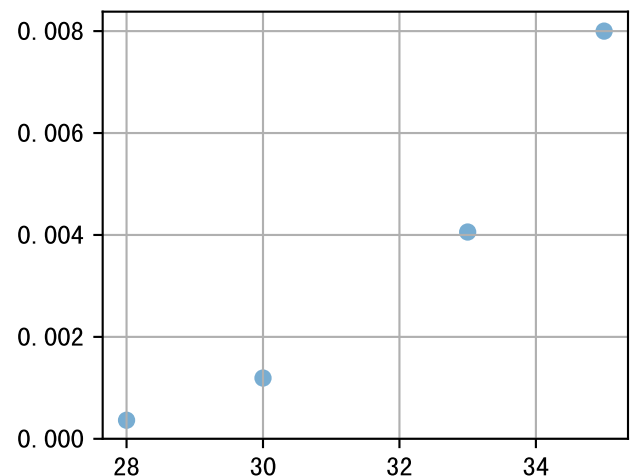
P3-068-4T1Fr1 (fit failed)



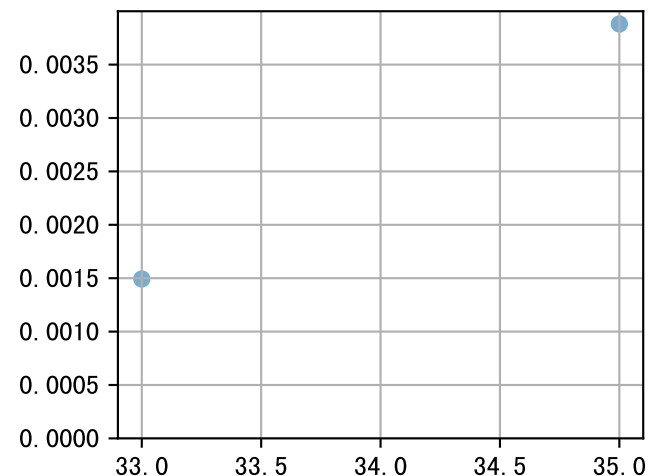
P3-068-4T1Fr5 (fit failed)



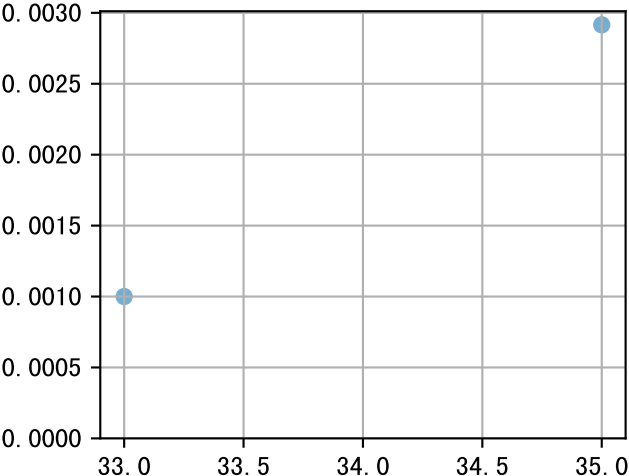
P3-075-19T1Fr1 (fit failed)



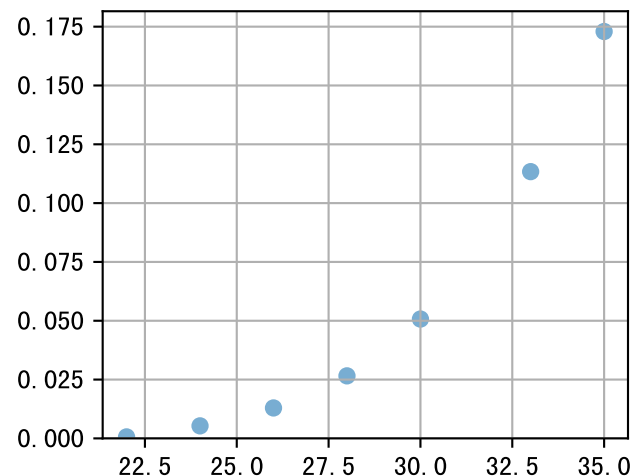
P3-075-19T1Fr5 (fit failed)



P3-075-19T2Fr1 (fit failed)

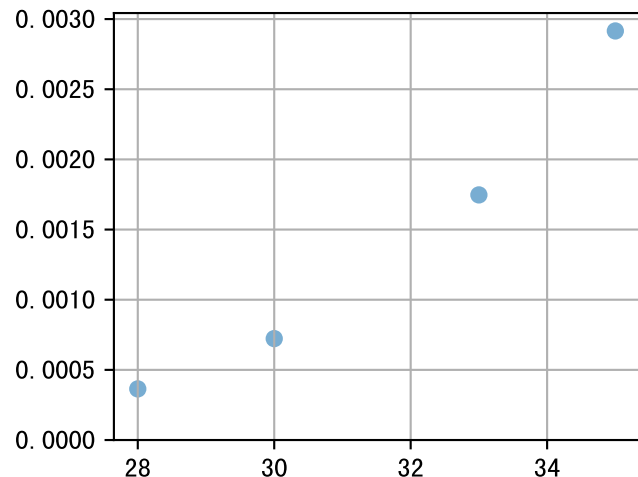


P3-084-11T1Fr1 (fit failed)

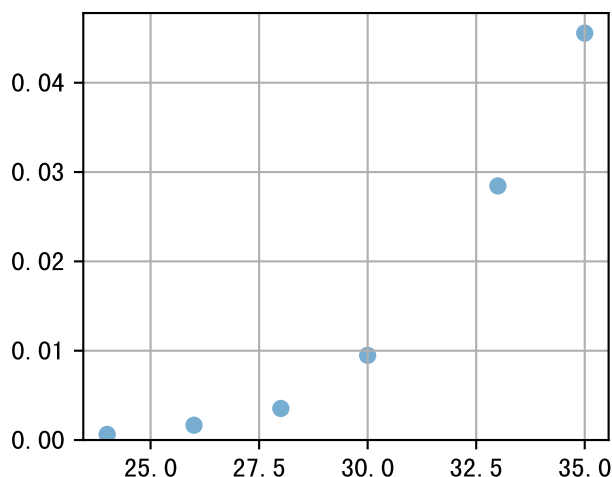


FrV

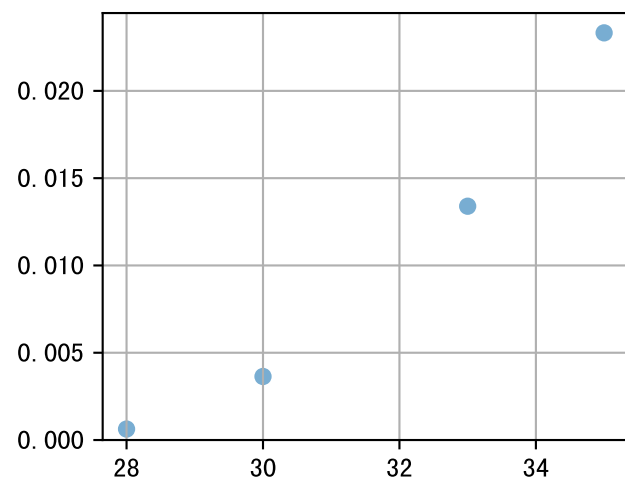
P3-084-11T1Fr5 (fit failed)



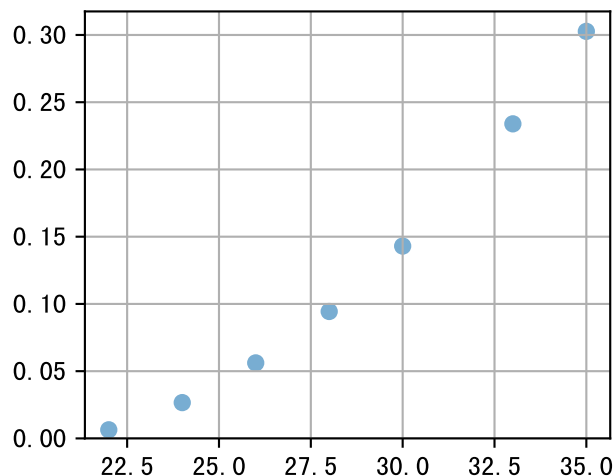
P3-099-4T1Fr1 (fit failed)



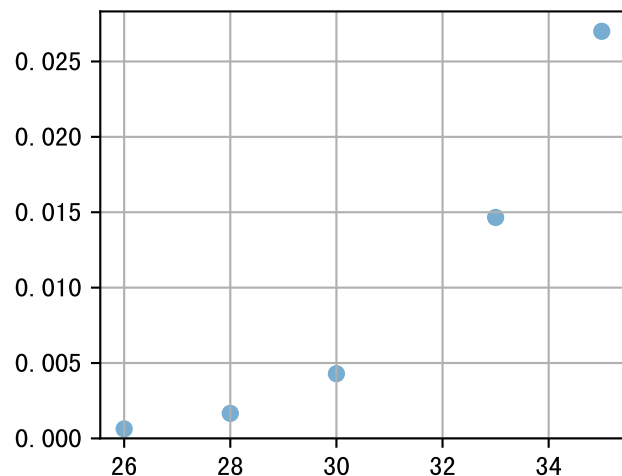
P3-099-4T1Fr5 (fit failed)



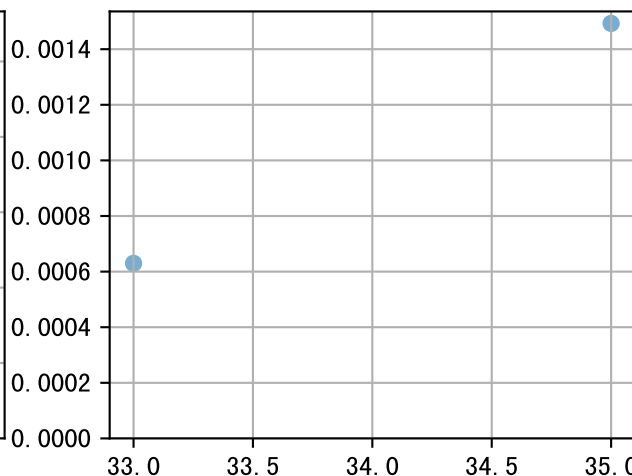
P3-110-23T1Fr1 (fit failed)



P3-110-23T1Fr5 (fit failed)

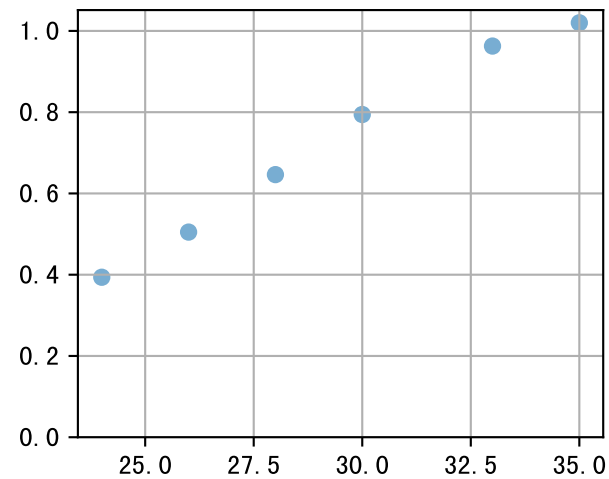


P3-110-23T2Fr1 (fit failed)

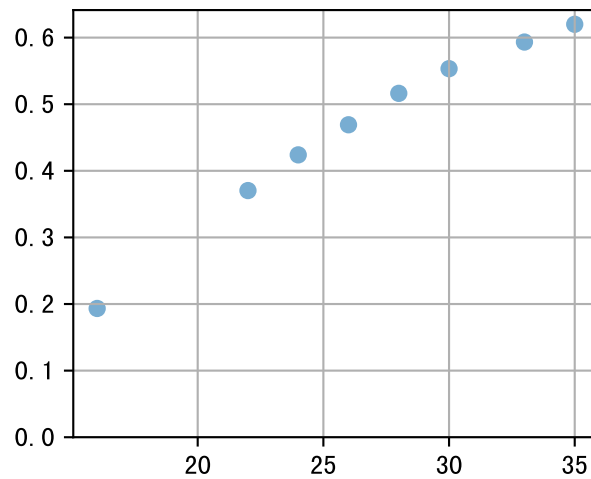


1-fA

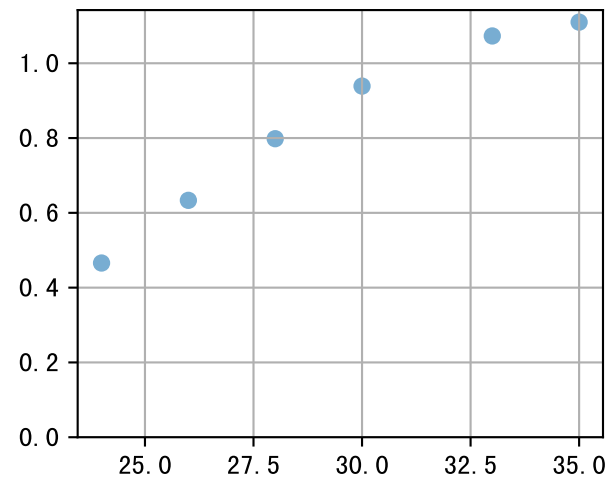
P3-009-13L10 (fit failed)



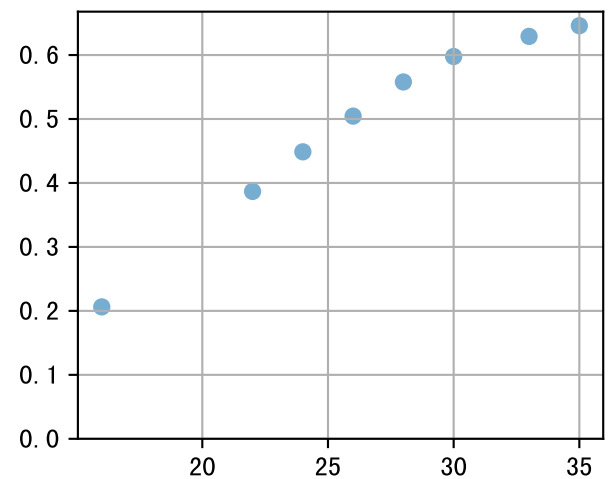
P3-009-13L7 (fit failed)



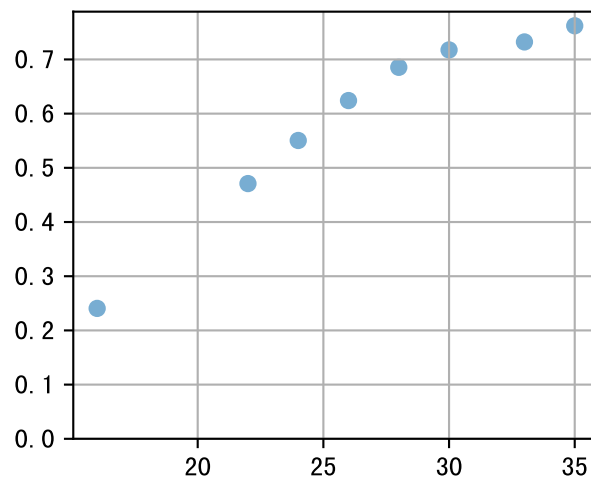
P3-021-19L10 (fit failed)



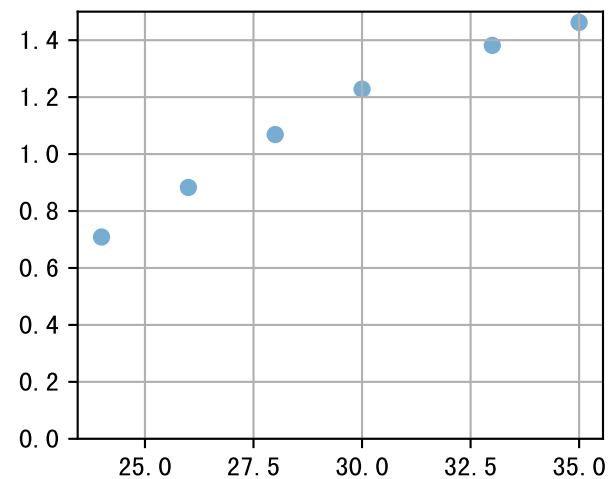
P3-021-19L6 (fit failed)



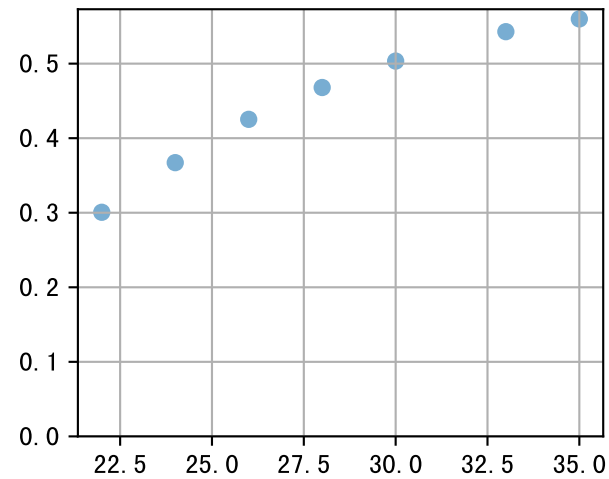
P3-034-5L6 (fit failed)



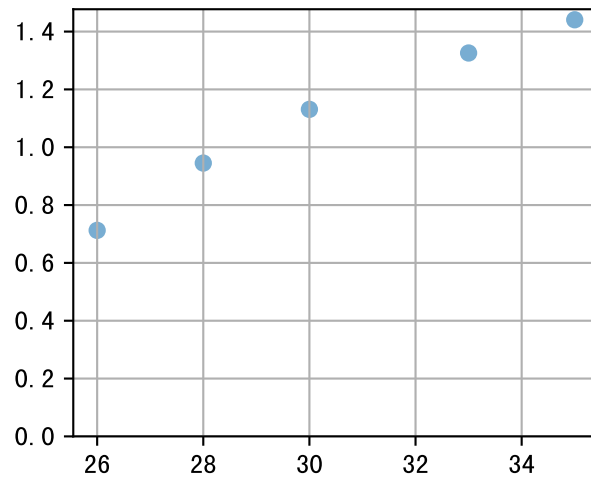
P3-034-5L9 (fit failed)



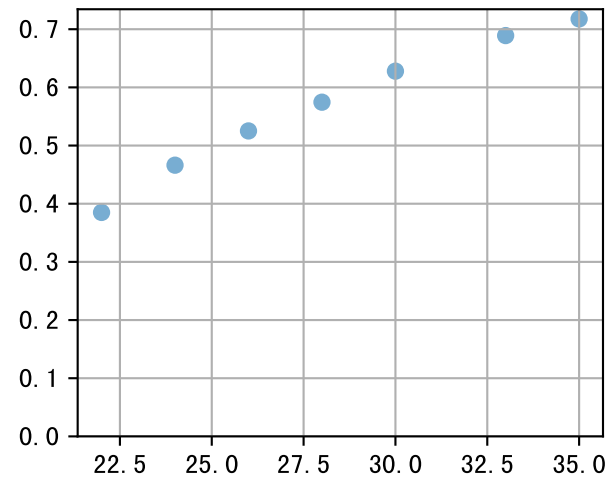
P3-045-17L6 (fit failed)



P3-054-28L10 (fit failed)



P3-054-28L7 (fit failed)

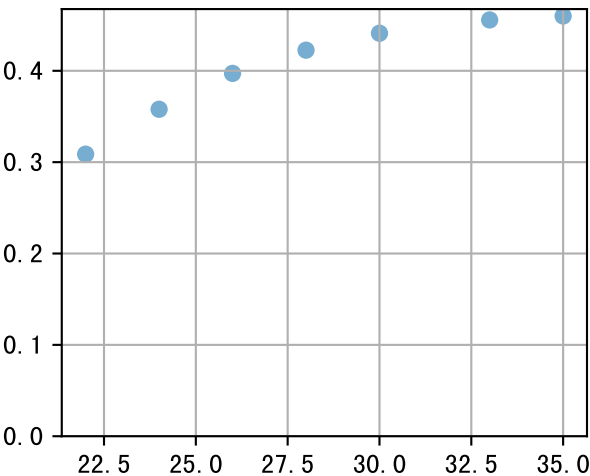
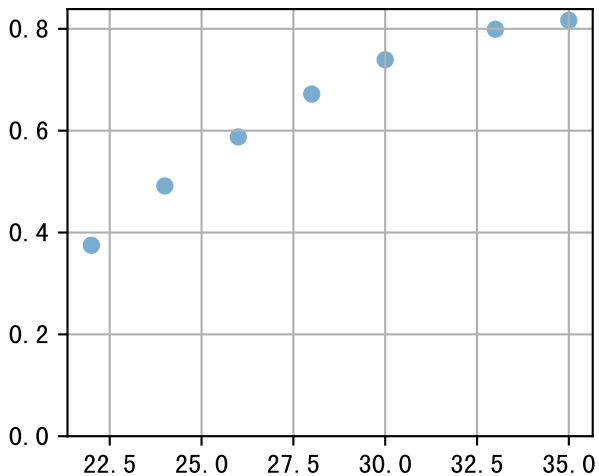
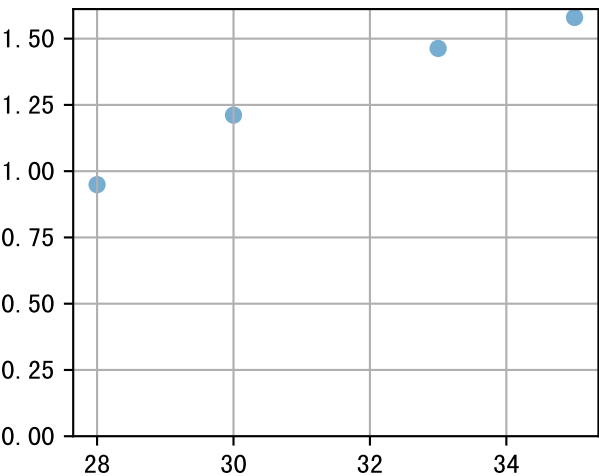


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P3-068-4L10 (fit failed)

P3-068-4L7 (fit failed)

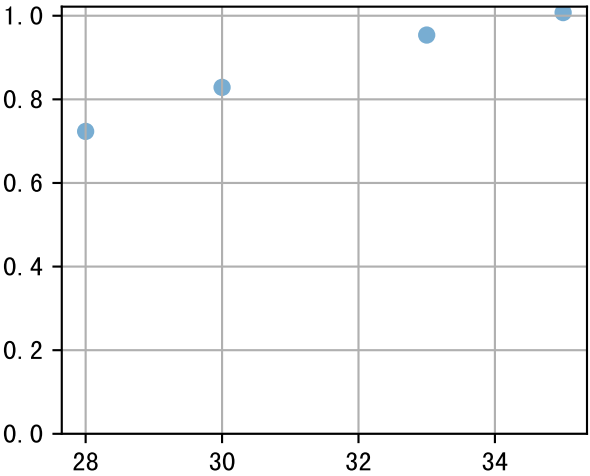
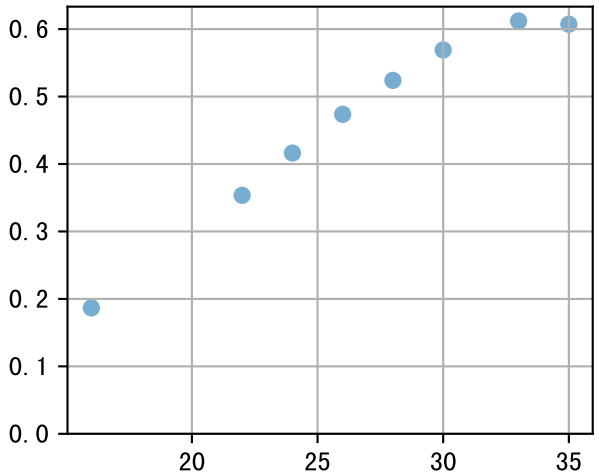
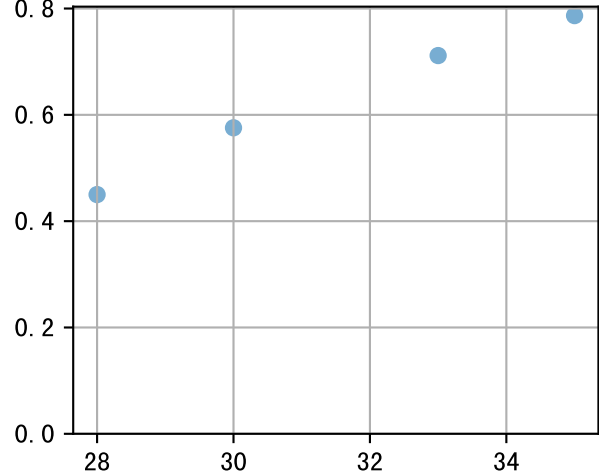
P3-075-19L6 (fit failed)



P3-075-19L9 (fit failed)

P3-084-11L6 (fit failed)

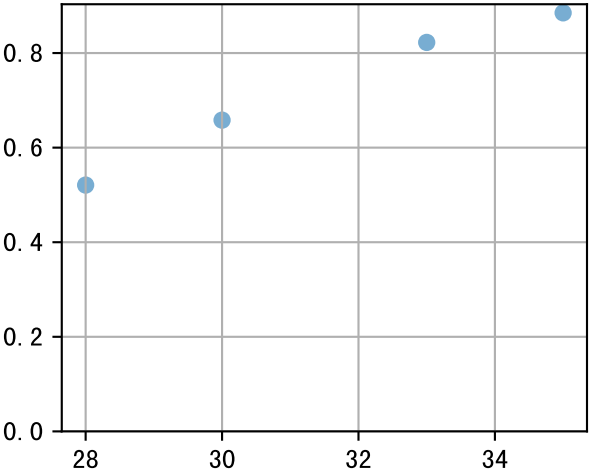
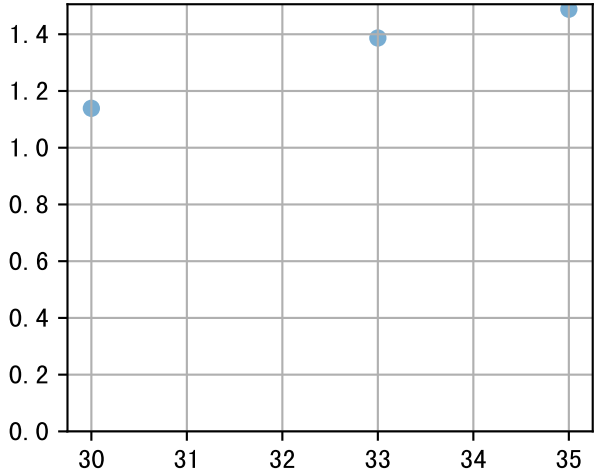
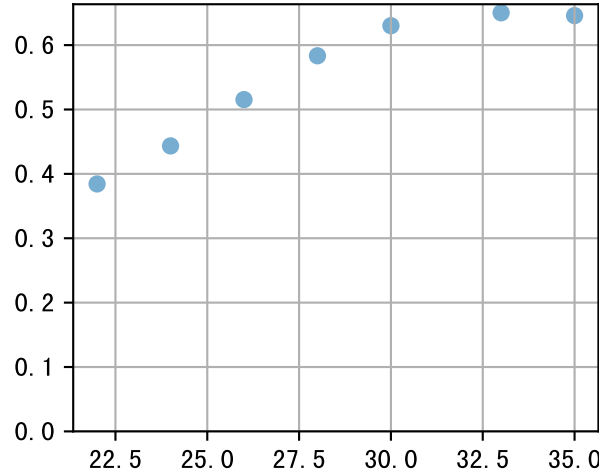
P3-084-11L9 (fit failed)



P3-099-4L6 (fit failed)

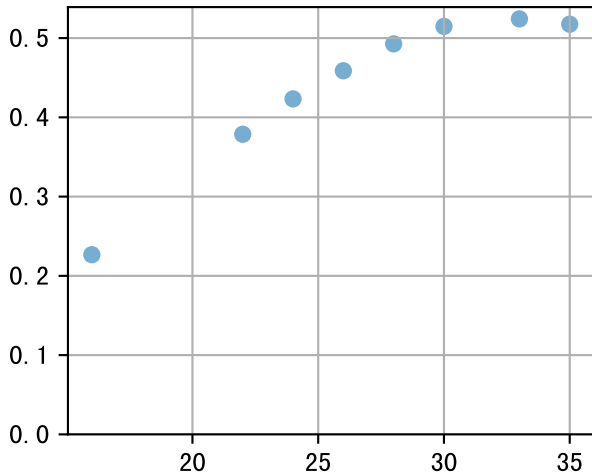
P3-099-4L9 (fit failed)

P3-110-23L10 (fit failed)

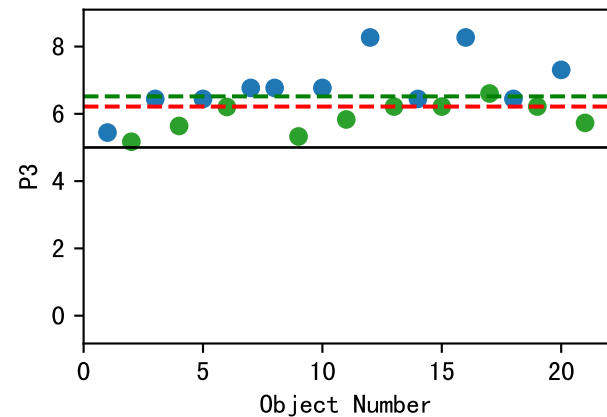


P3-110-23L6 (fit failed)

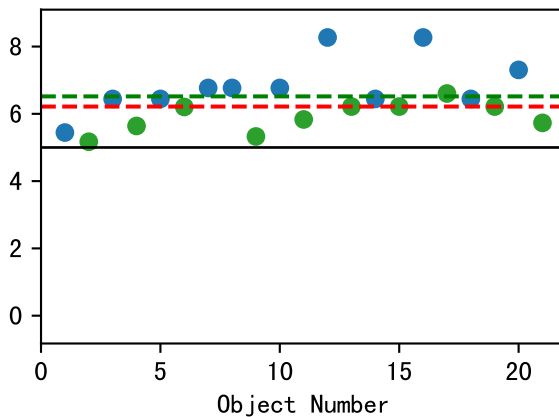
LfA



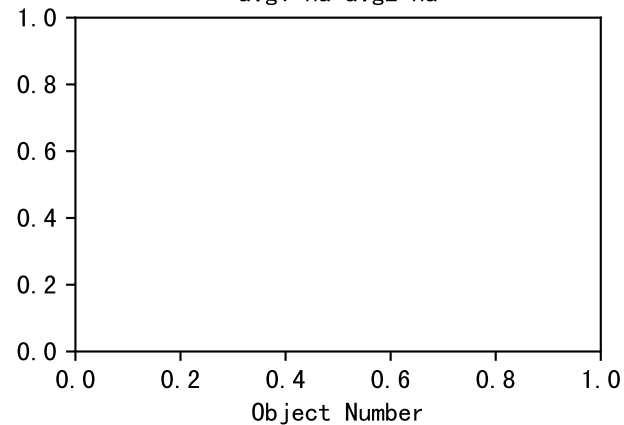
FI_dm (Def=5 Set=6.22)
avg1=6.22~8% avg2=6.52~17%



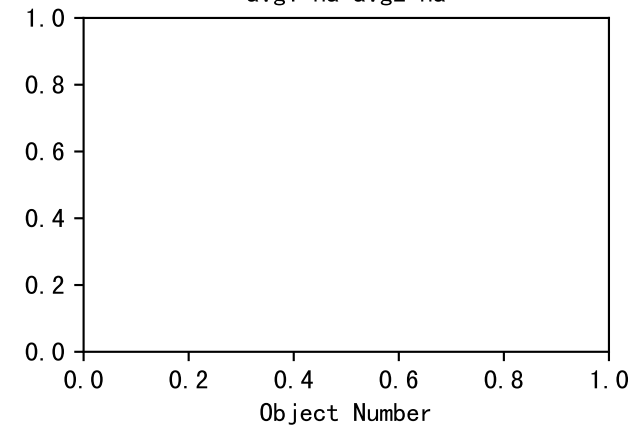
FI_de (Def=5 Set=6.22)
avg1=6.22~8% avg2=6.52~17%



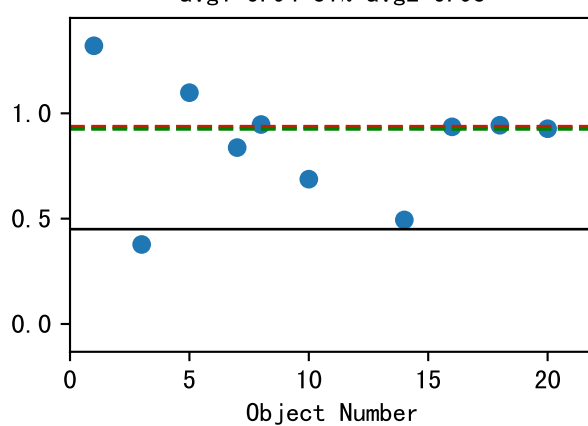
FrV_dm (Def=18 Set=18)
avg1=na avg2=na



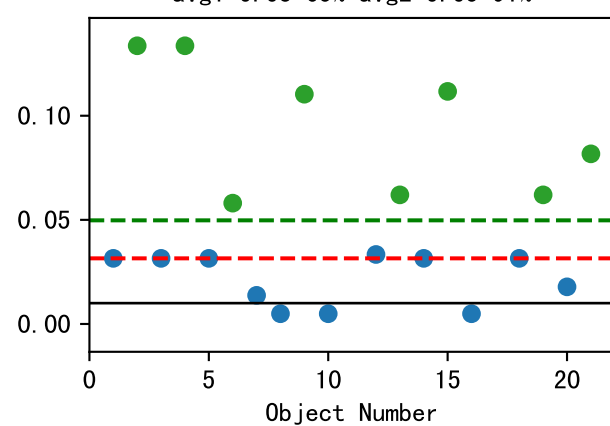
FrV_de (Def=15 Set=15)
avg1=na avg2=na



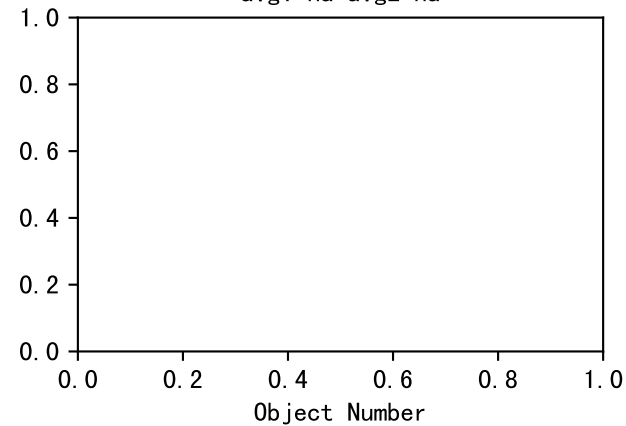
FrN_a (Def=0.45 Set=0.94)
avg1=0.94~31% avg2=0.93



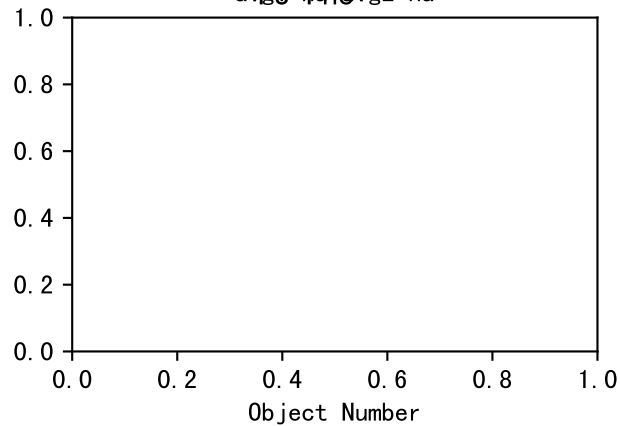
FSDdevStage (Def=0.01 Set=0.03)
avg1=0.03~65% avg2=0.05~91%



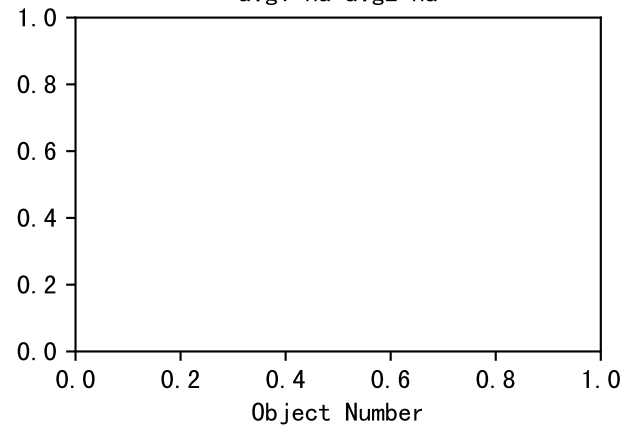
FGDdevStage (Def=0.7 Set=0.7)
avg1=na avg2=na



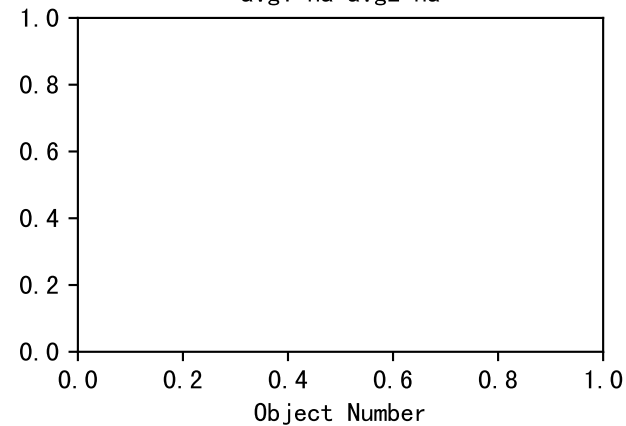
FMBDdevStage (Def=1.3 Set=1.3)
avg1=na avg2=na



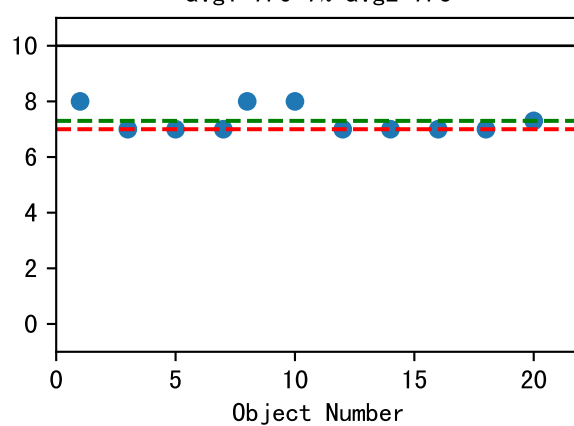
FMEDdevStage (Def=1.8 Set=1.8)
avg1=na avg2=na



FHDdevStage (Def=1.5 Set=1.5)
avg1=na avg2=na

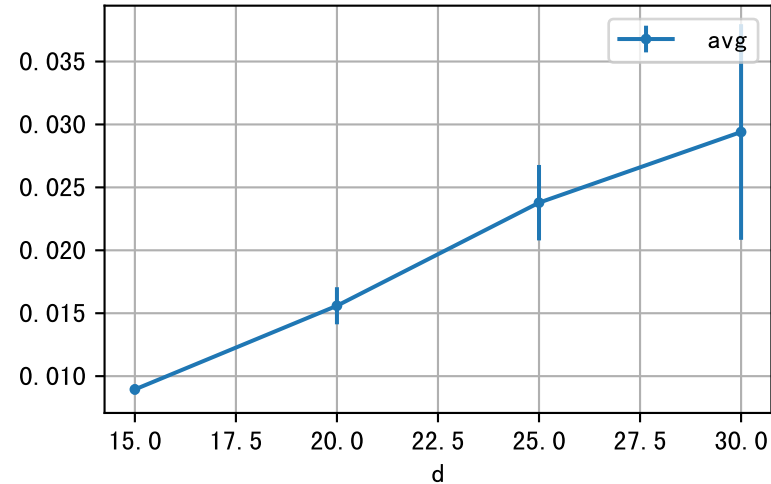


NNgen (Def=10 Set=7)
avg1=7.0~7% avg2=7.3

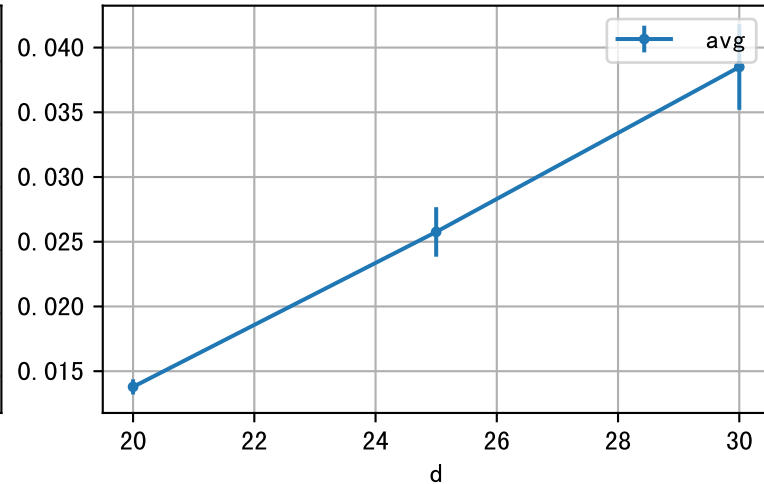


LfA: avg vs. d at each age group

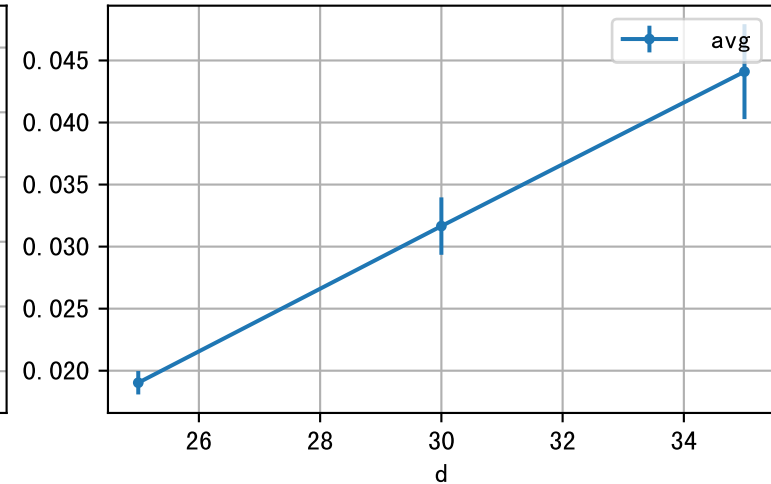
age=20



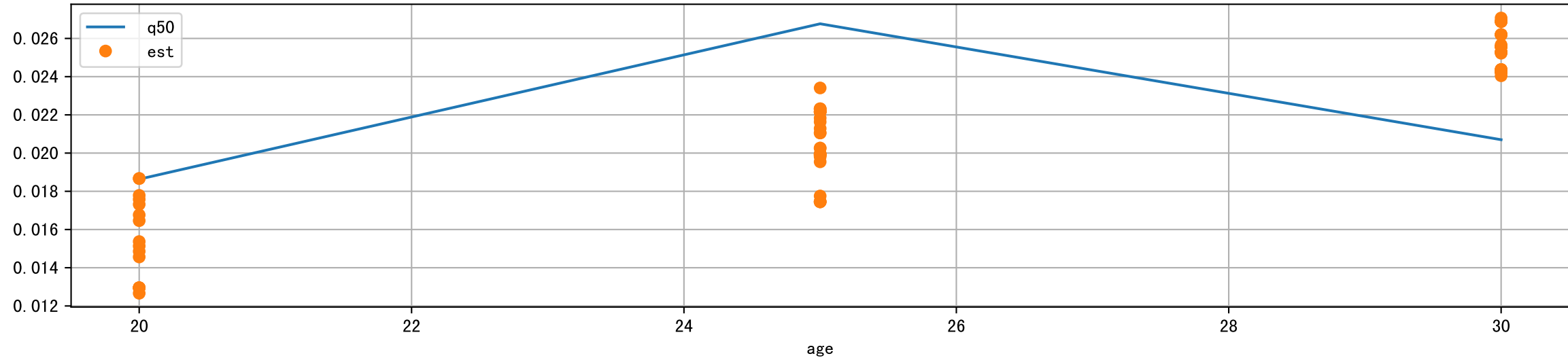
age=25



age=30

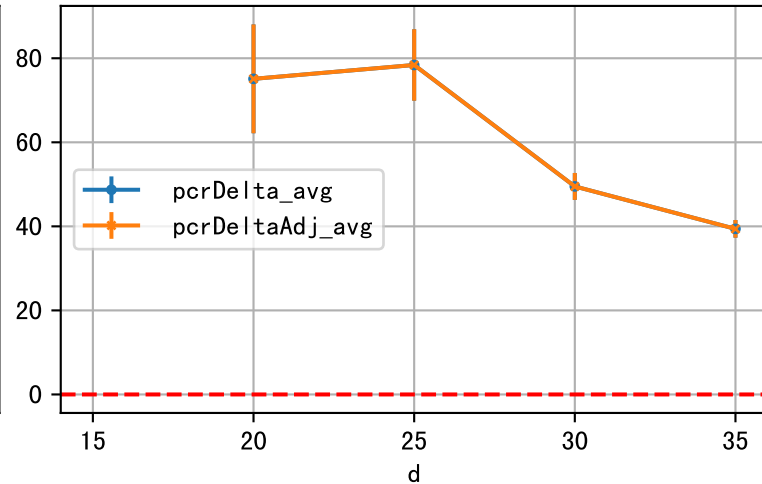


LfA: model est vs obs0v@Q50

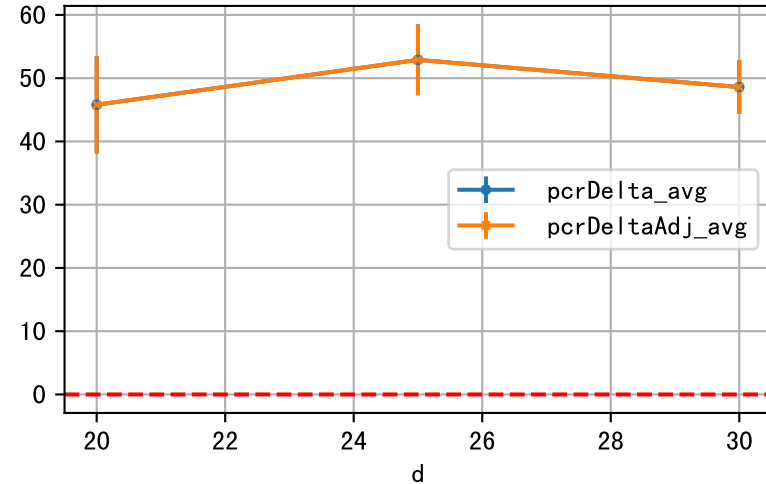


P3 LfA: D_5d_LfA

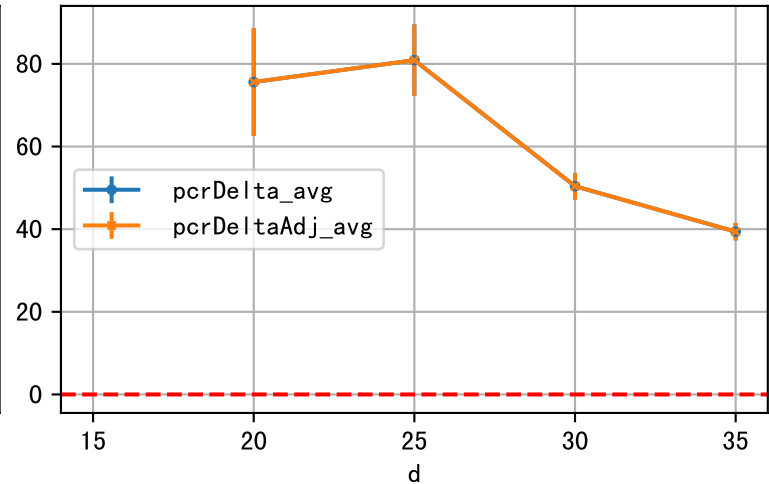
DeltaTypeAbbr=GrpByDay



DeltaTypeAbbr=GrpByAge



DeltaTypeAbbr=Wei AvgByD

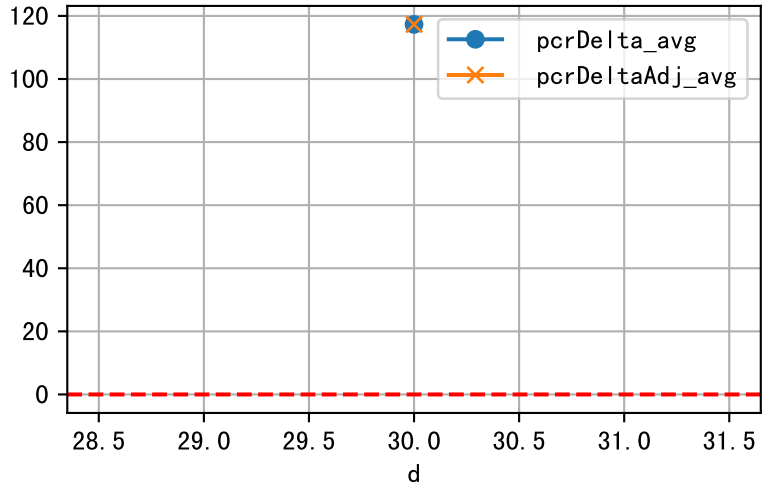
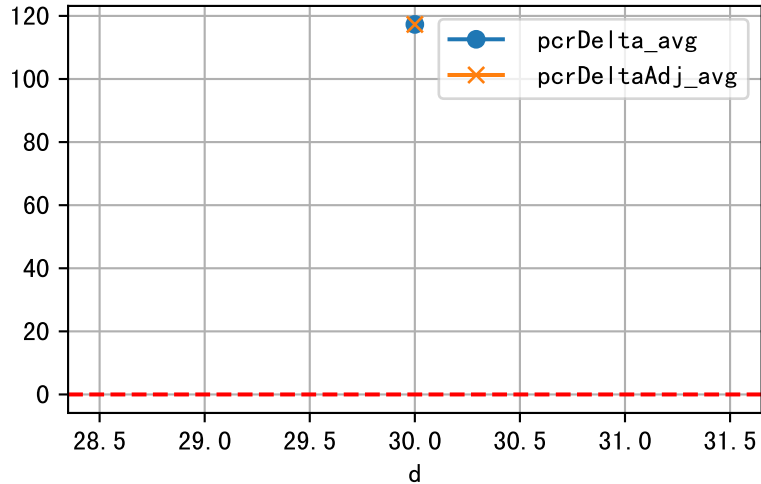
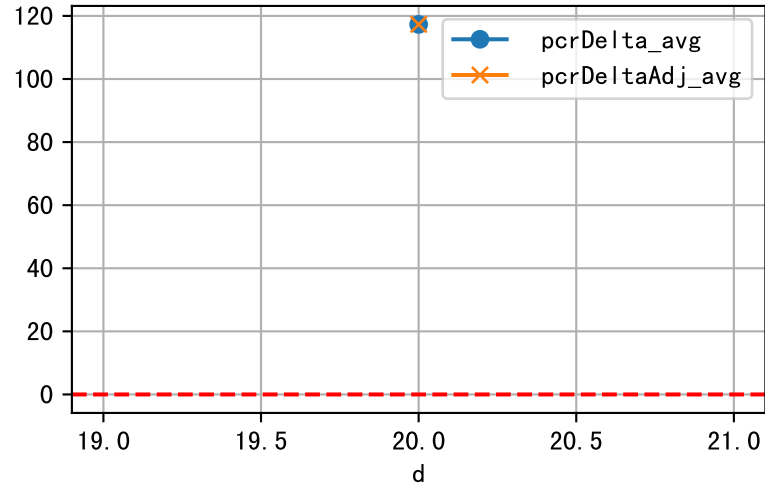


P3 LfA: D_15d_LfA

DeltaTypeAbbr=GrpByAge

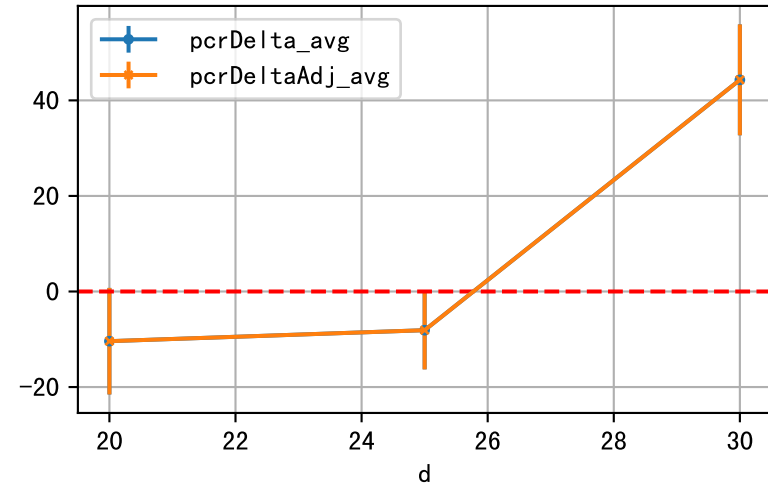
DeltaTypeAbbr=GrpByDay

DeltaTypeAbbr=WeiAvgByD

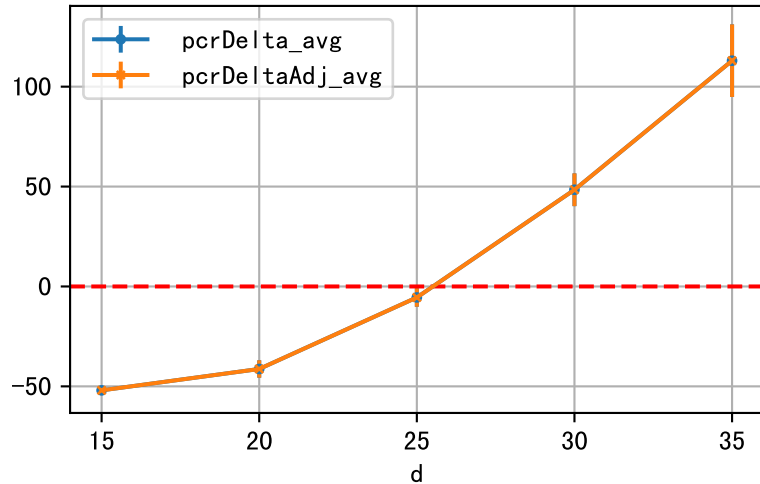


P3 LfA: D_Q50_LfA

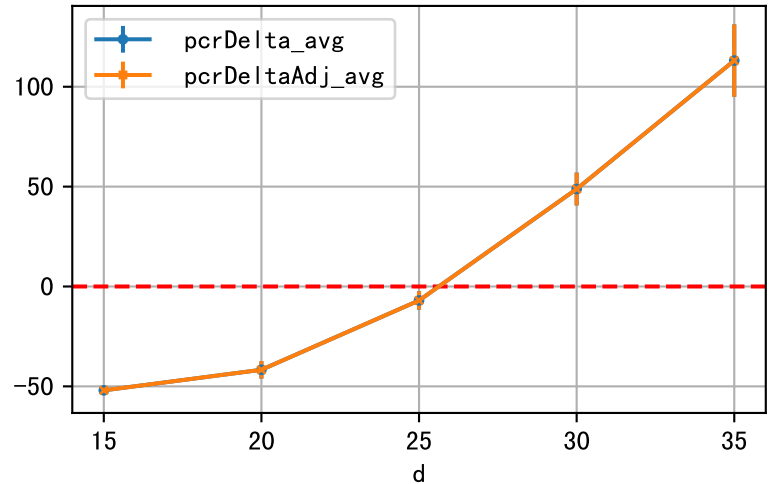
DeltaTypeAbbr=GrpByAge



DeltaTypeAbbr=GrpByDay

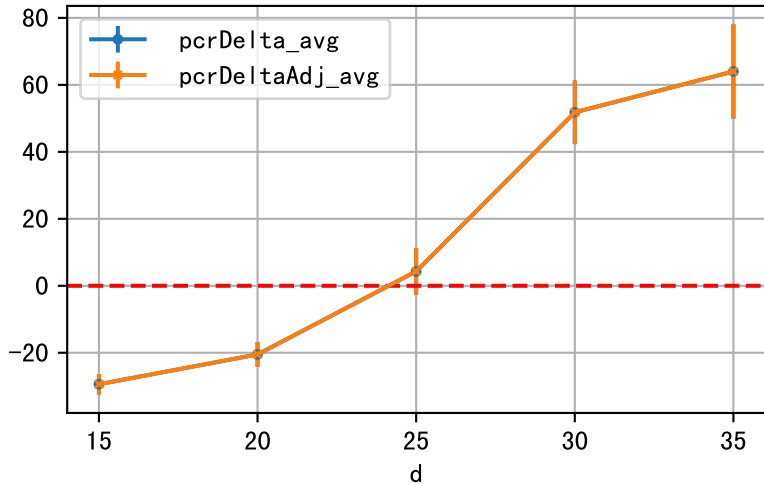


DeltaTypeAbbr=WeiAvgByD

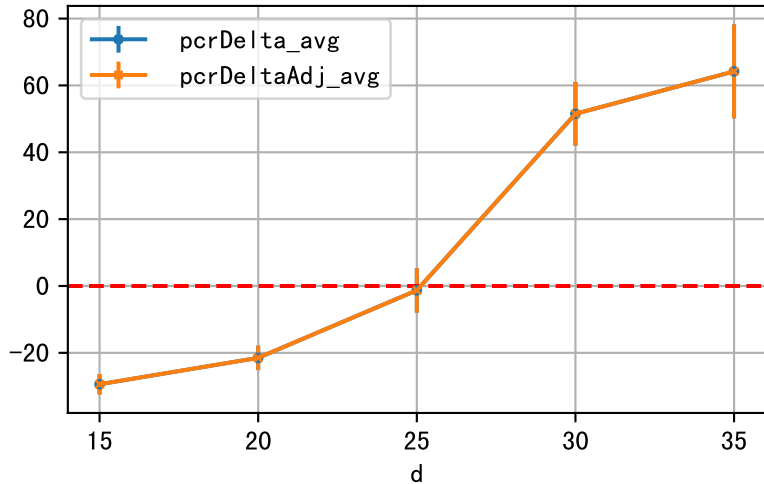


P3 LfA: D_Est_LfA

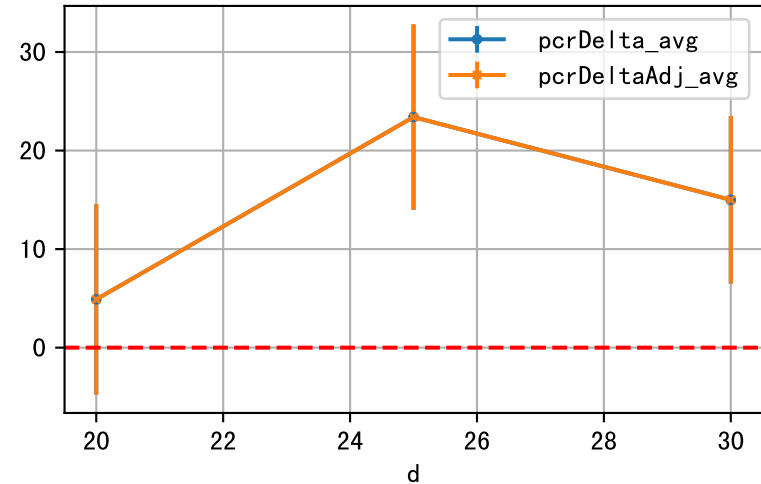
DeltaTypeAbbr=GrpByDay



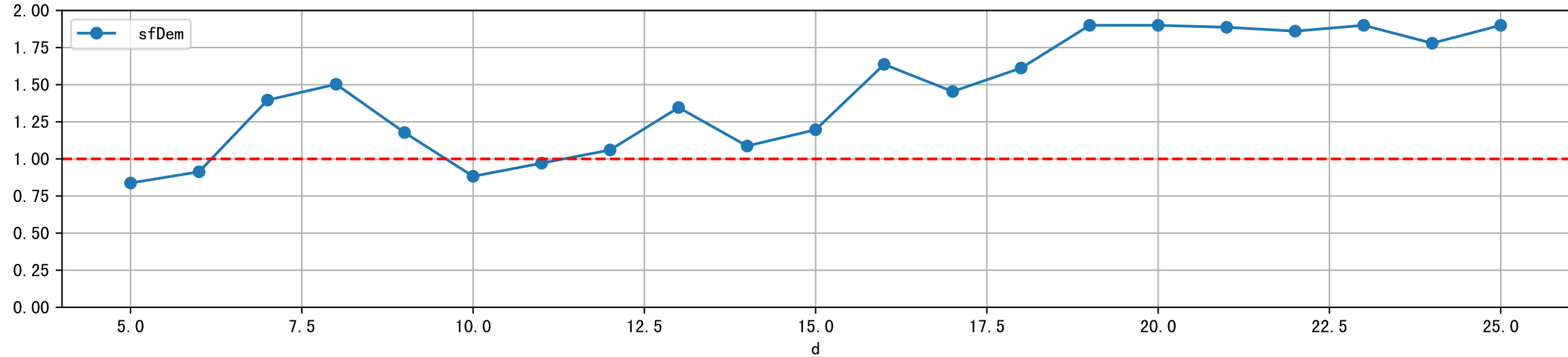
DeltaTypeAbbr=Wei AvgByD



DeltaTypeAbbr=GrpByAge



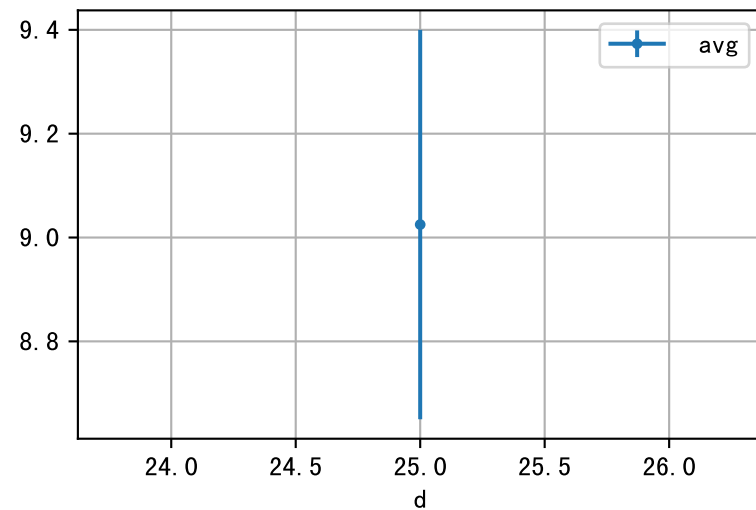
LfA: sfDem



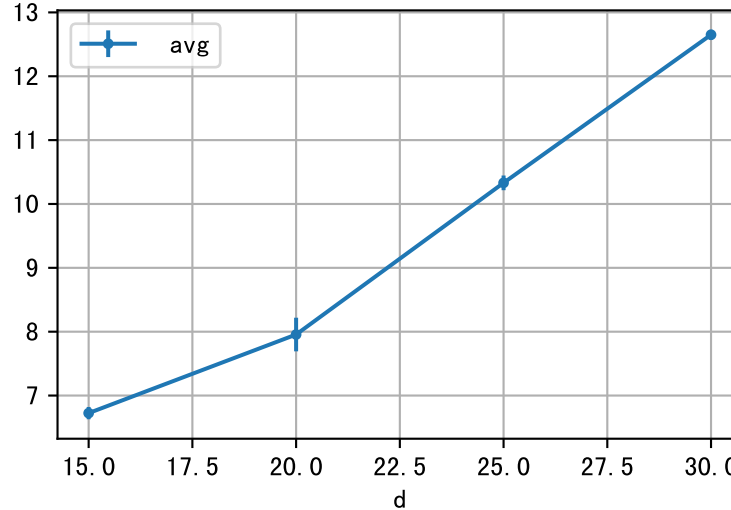


NdD: avg vs. d at each age group

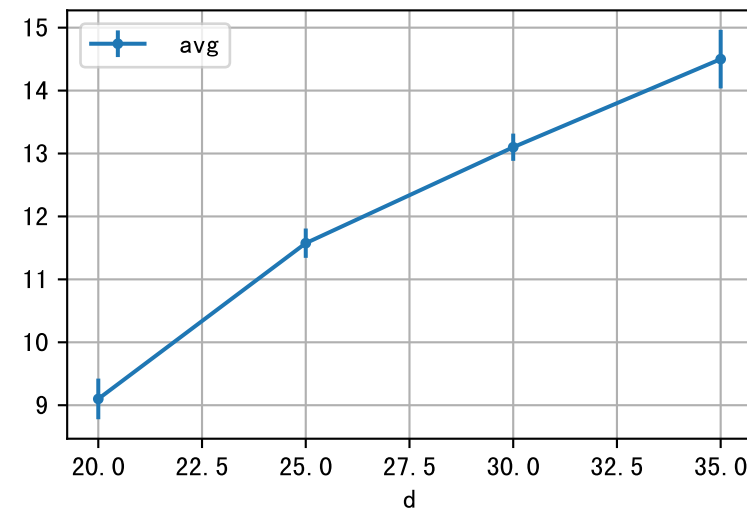
age=15



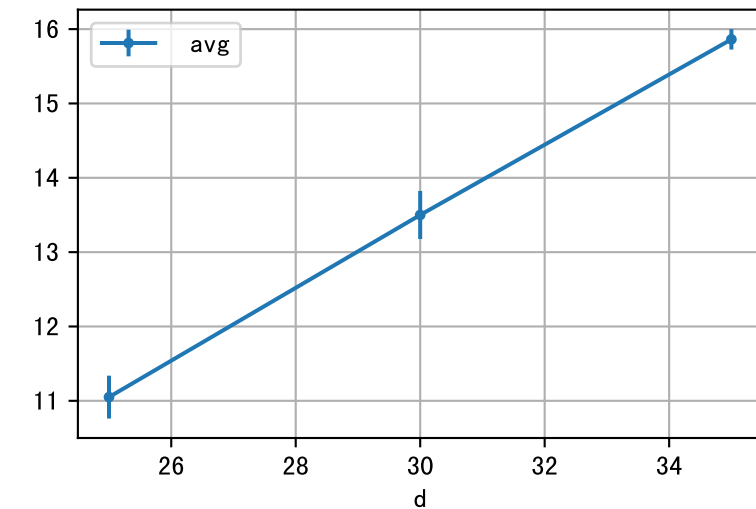
age=20



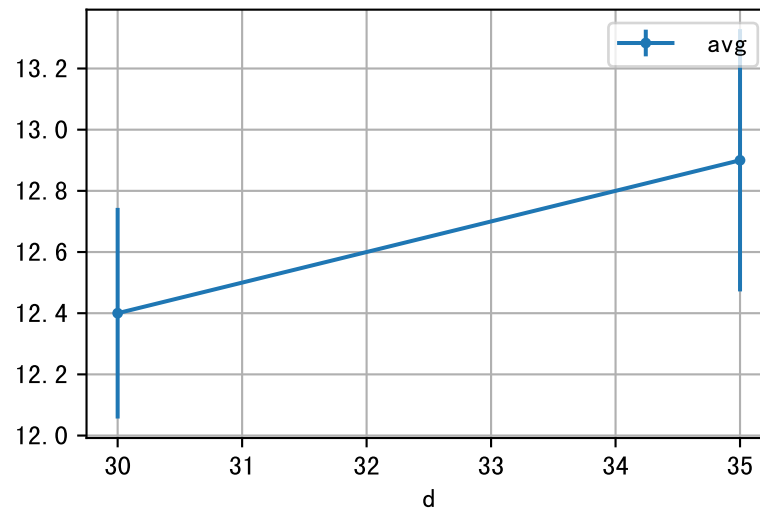
age=25



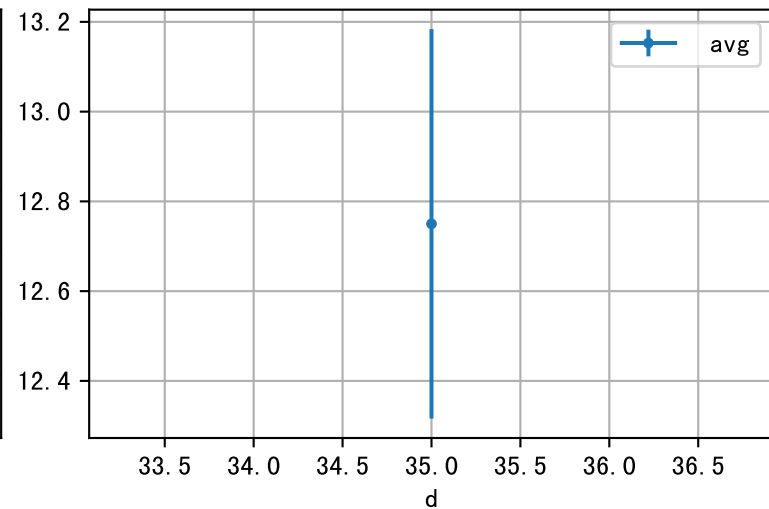
age=30



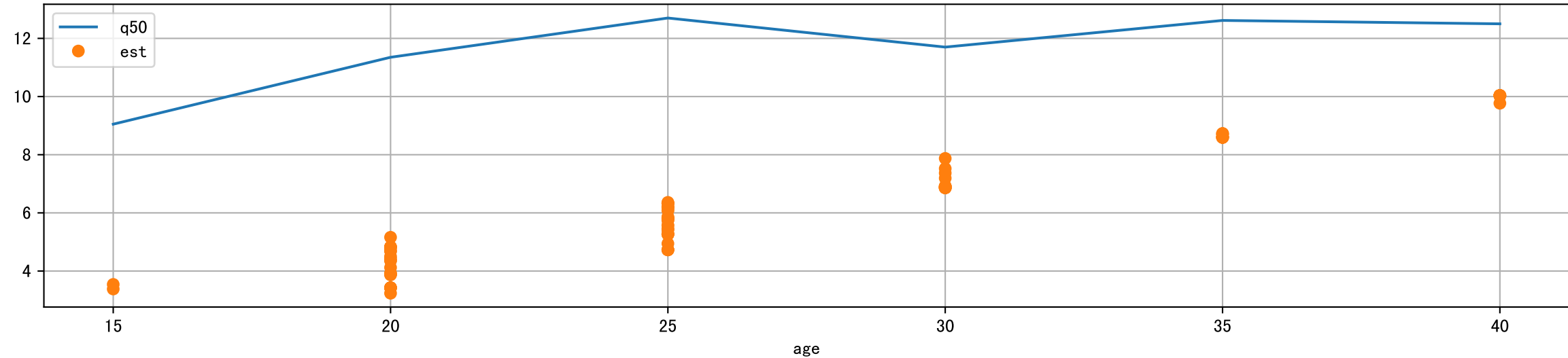
age=35



age=40

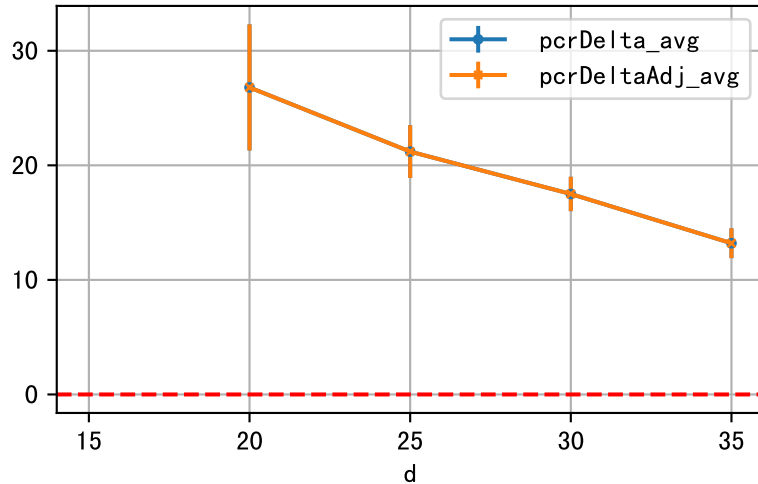


NdD: model est vs obs0v@Q50

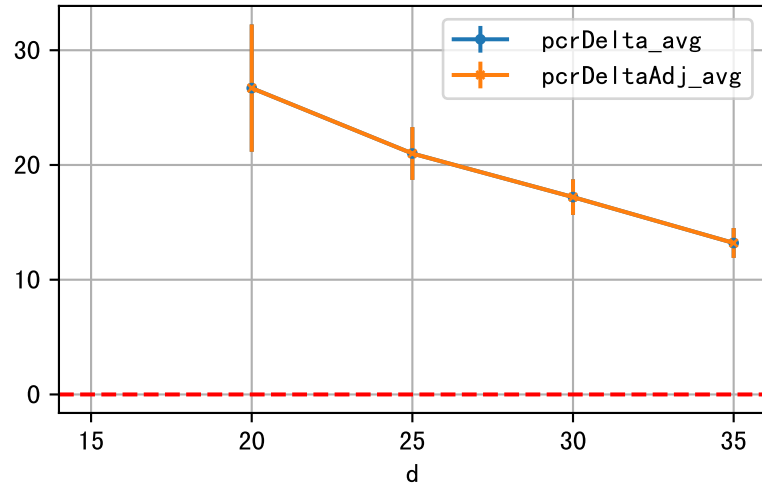


P3 NdD: D_5d_NdD

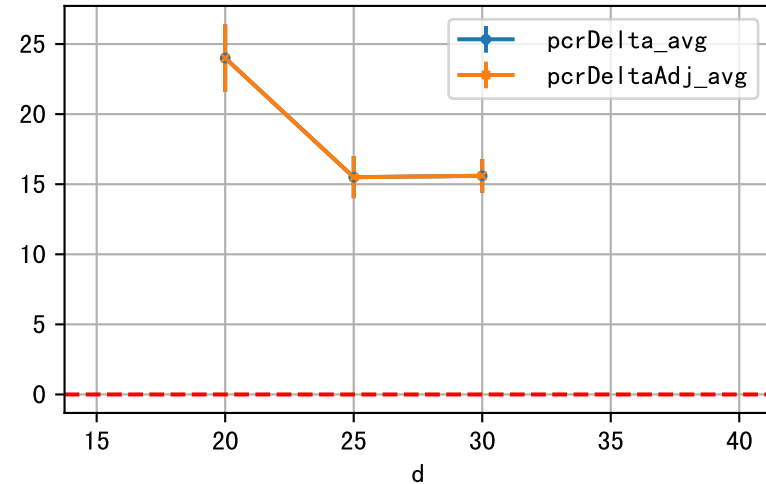
DeltaTypeAbbr=GrpByDay



DeltaTypeAbbr=Wei AvgByD

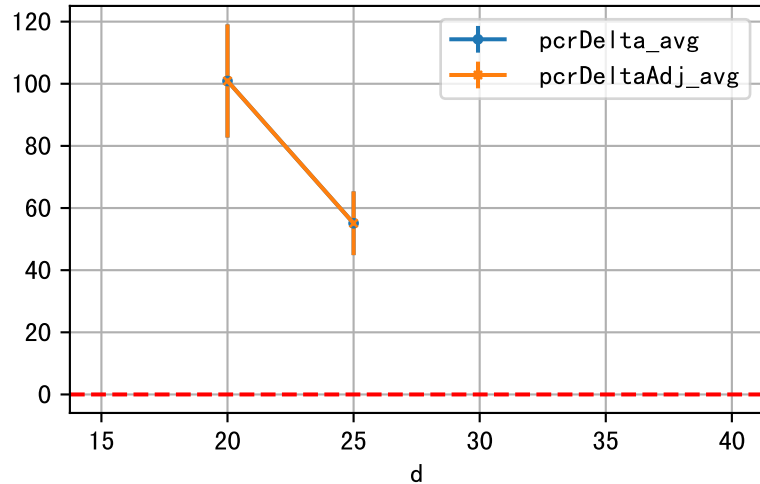


DeltaTypeAbbr=GrpByAge

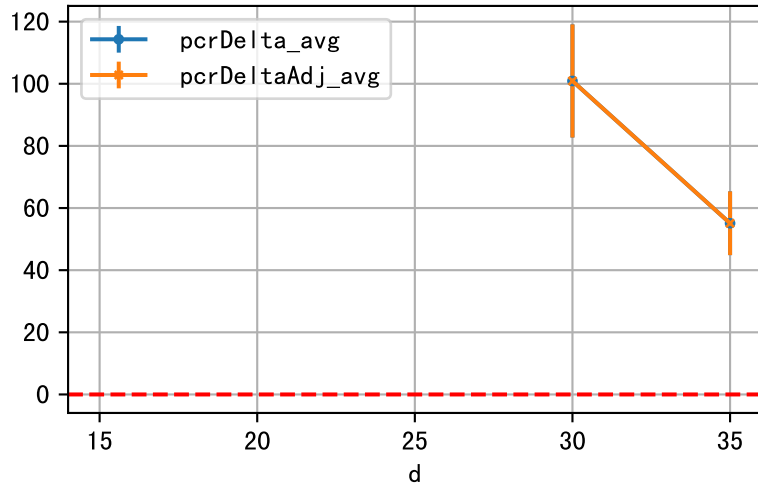


P3 NdD: D_15d_NdD

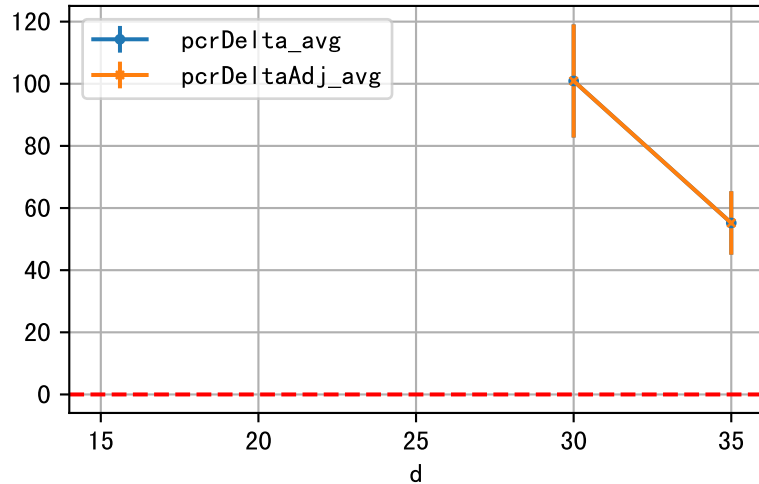
DeltaTypeAbbr=GrpByAge



DeltaTypeAbbr=GrpByDay

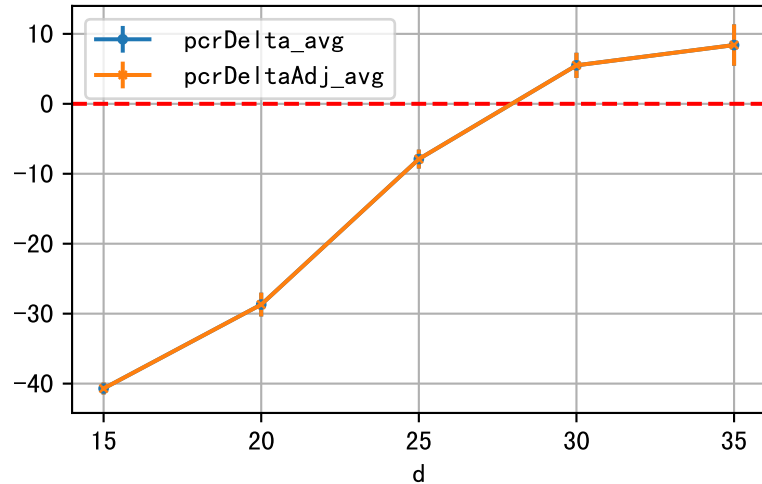


DeltaTypeAbbr=WeiAvgByD

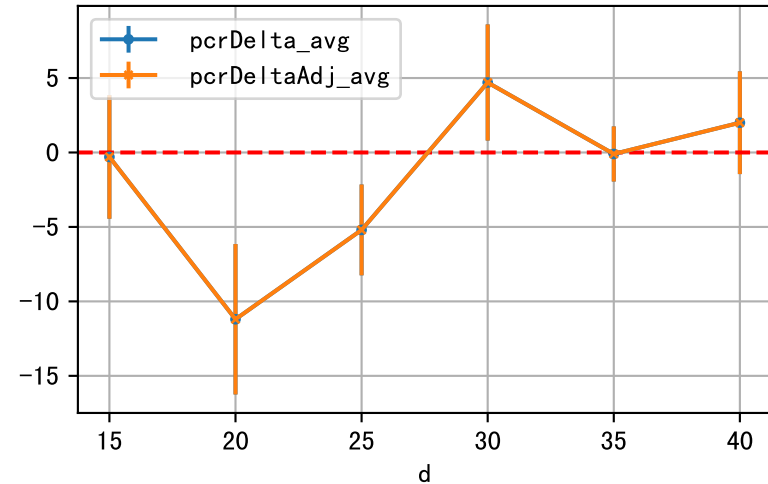


P3 NdD: D_Q50_NdD

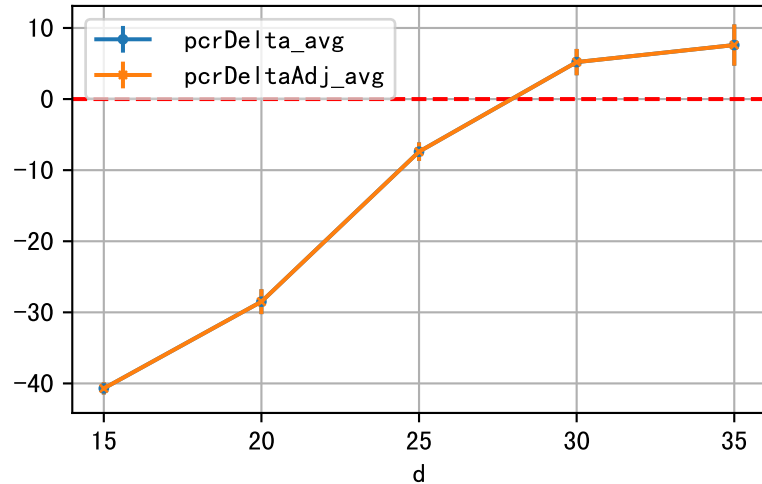
DeltaTypeAbbr=GrpByDay



DeltaTypeAbbr=GrpByAge



DeltaTypeAbbr=Wei AvgByD

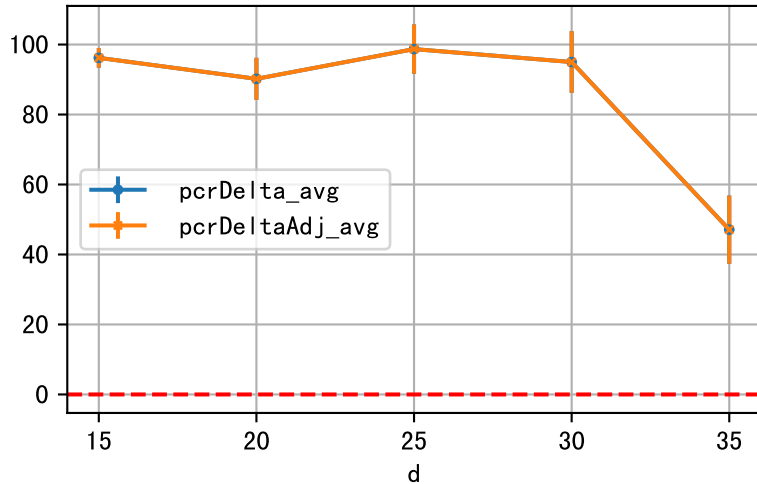
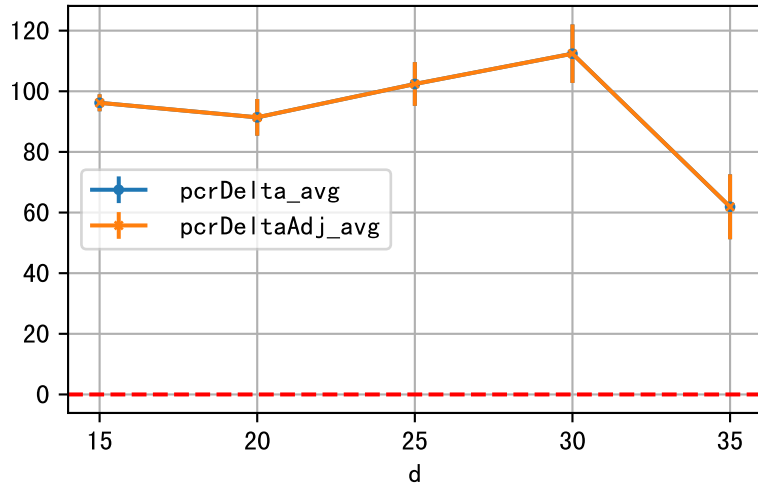
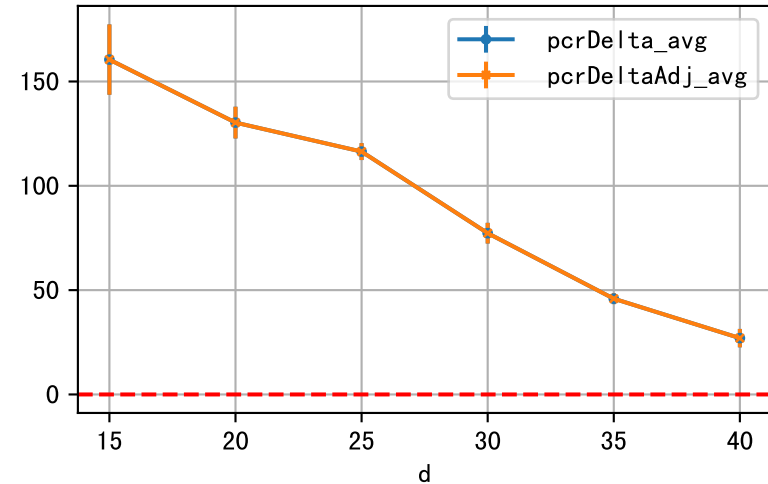


P3 NdD: D_Est_NdD

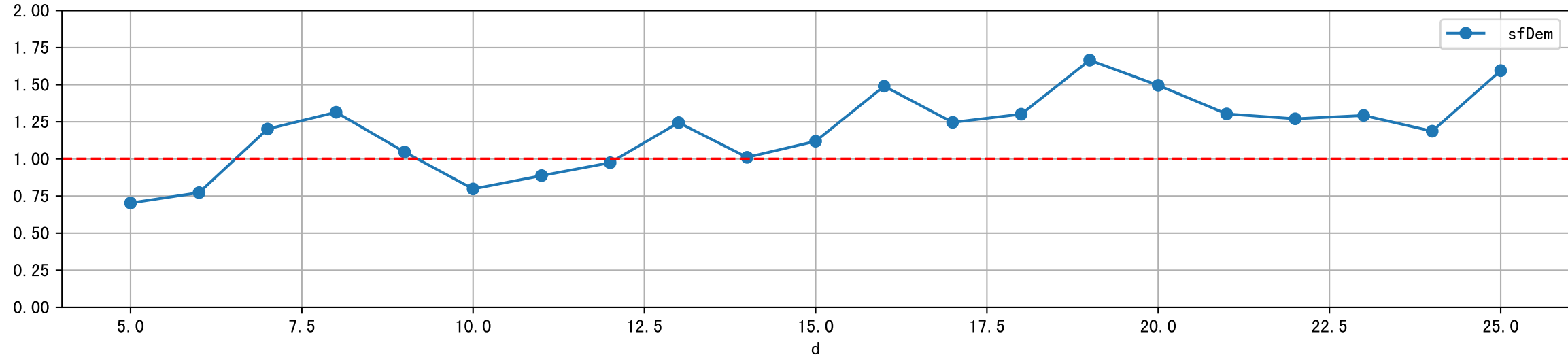
DeltaTypeAbbr=GrpByAge

DeltaTypeAbbr=GrpByDay

DeltaTypeAbbr=WeiAvgByD

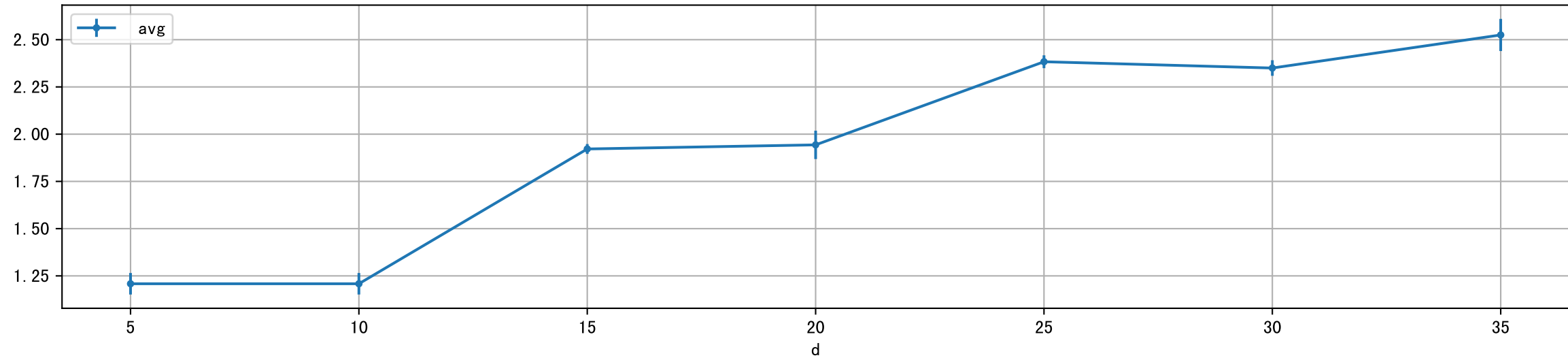


NdD: sfDem

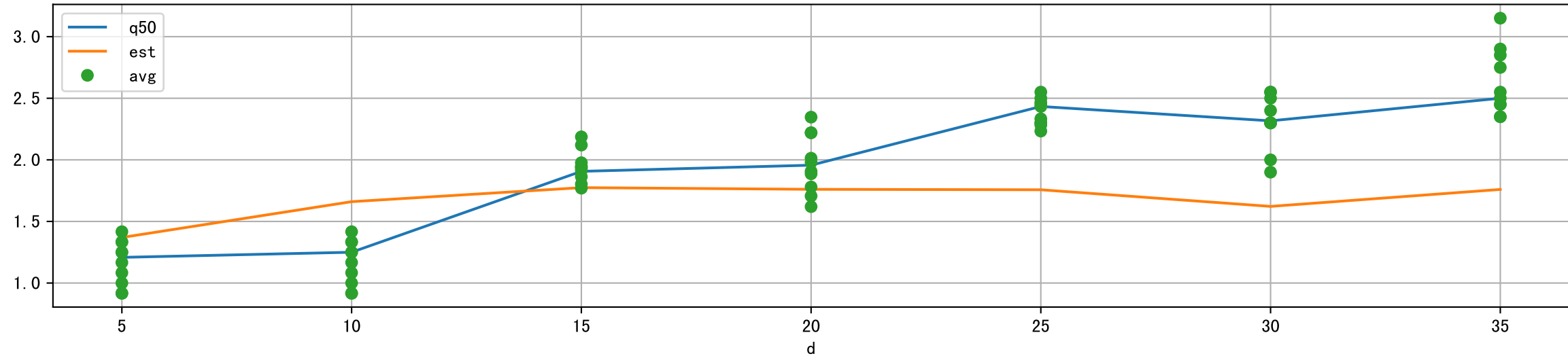




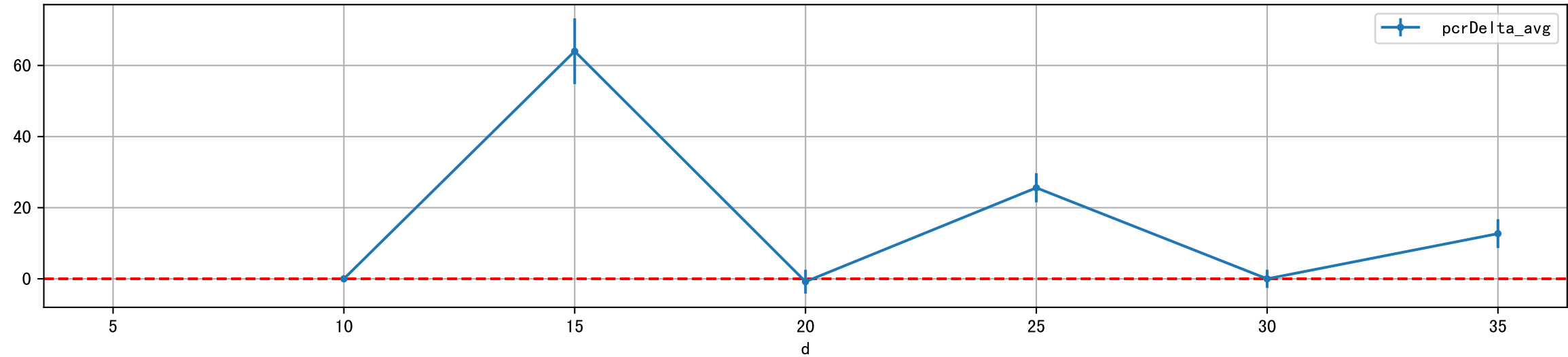
dStH: avg vs. d



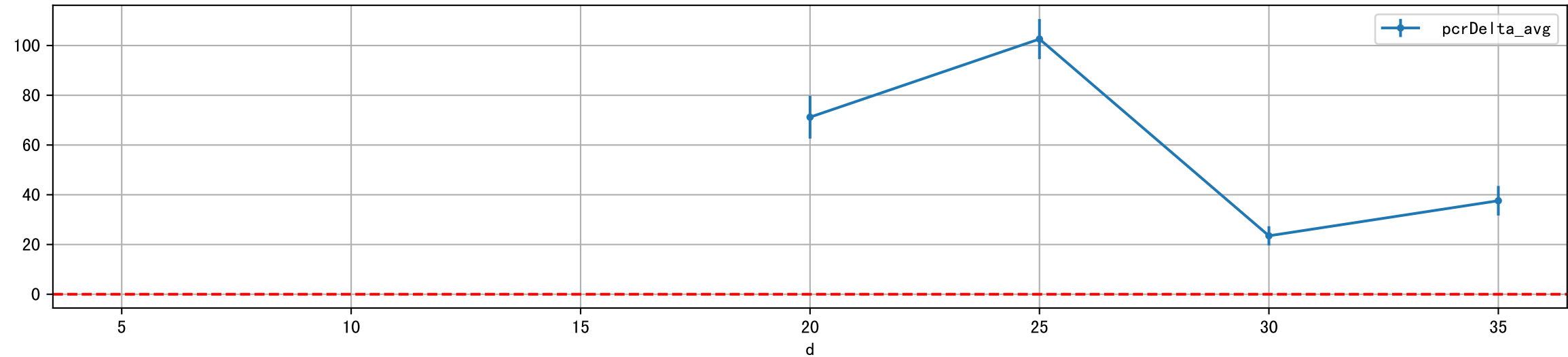
dStH: obsAvg vs obs0v@Q50



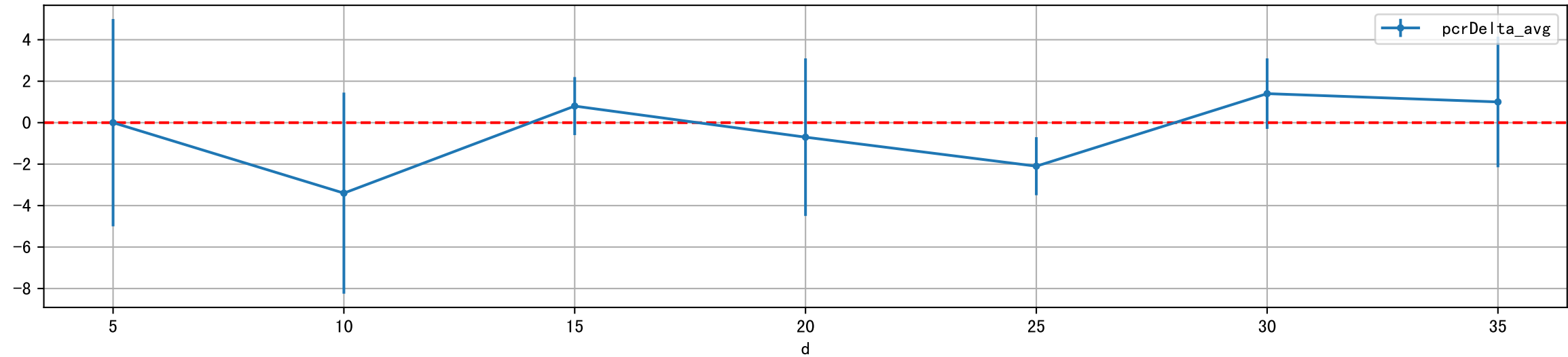
dStH: D_5d_StH



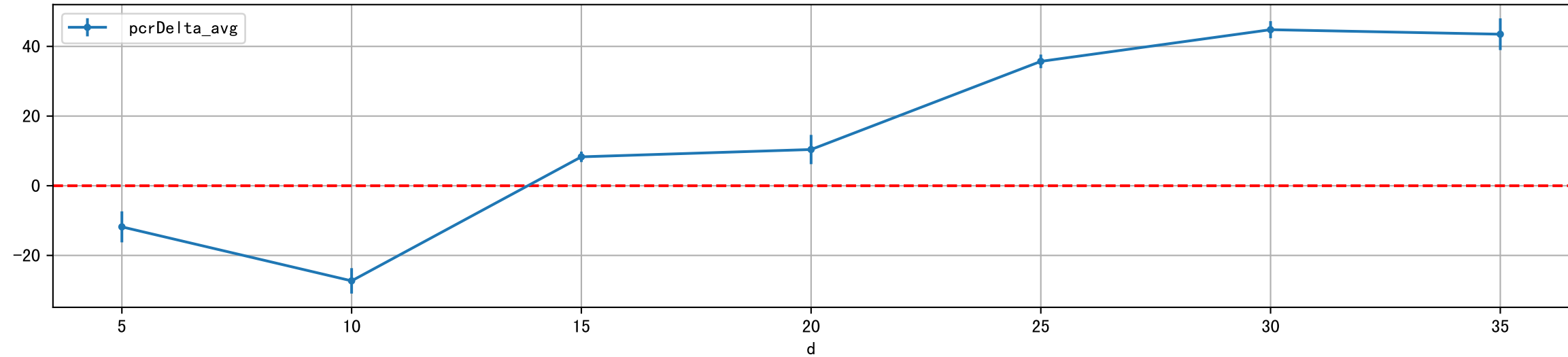
dStH: D_15d_StH



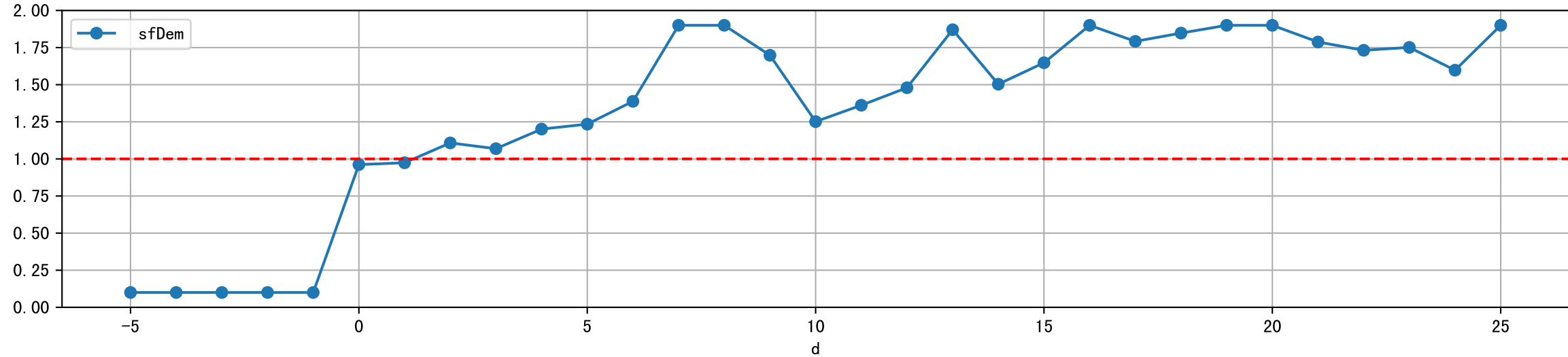
dStH: D_Q50_StH



dStH: D_Est_StH

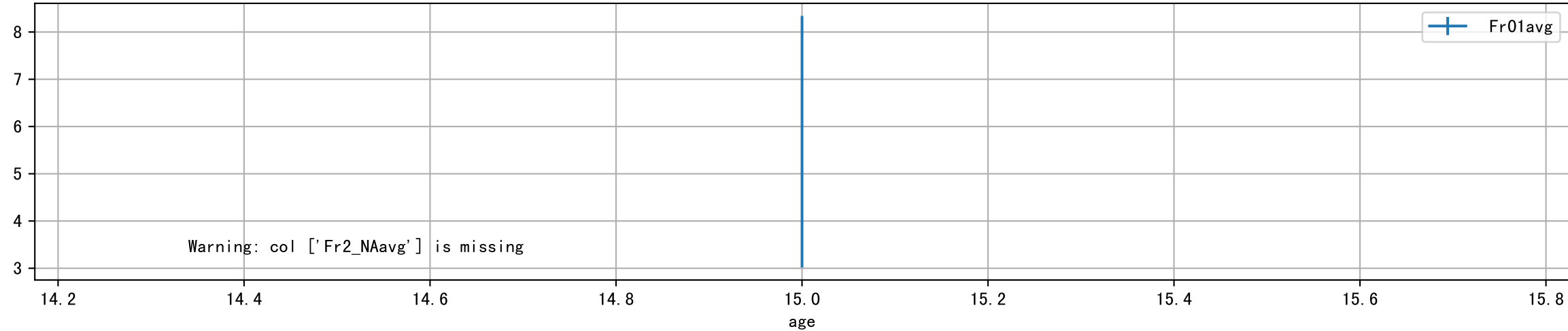


dStH: sfDem



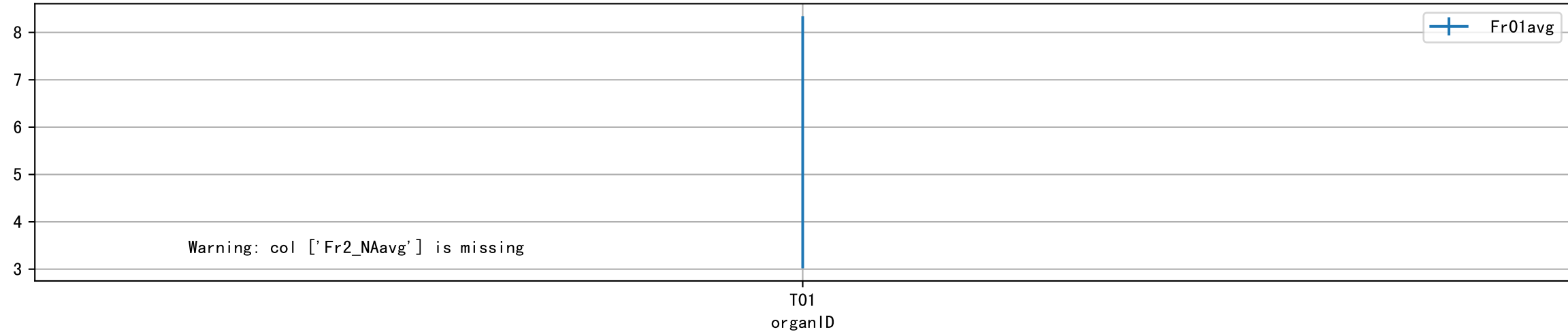


FrV: Fr01 vs Fr2_NA at each truss
organID=T01

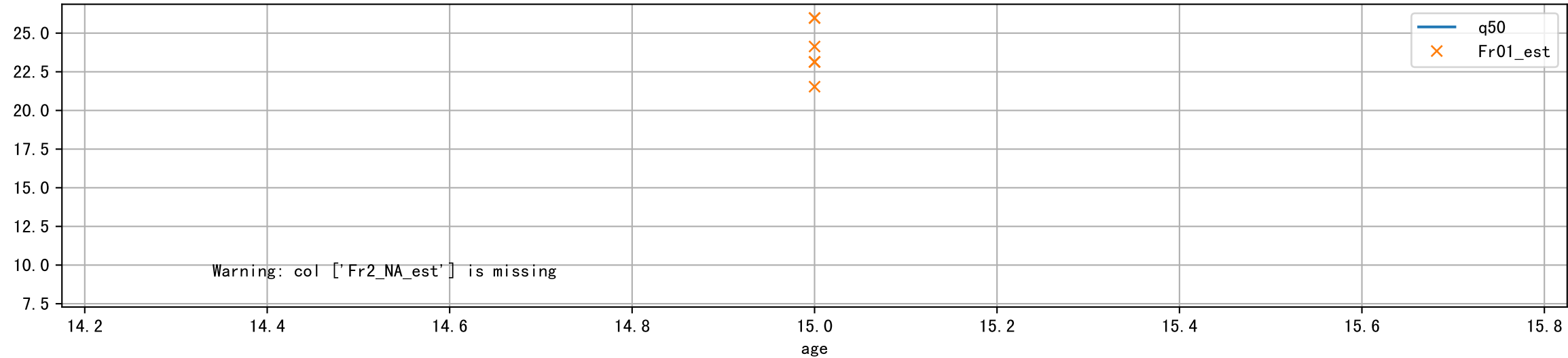


FrV trend at each age

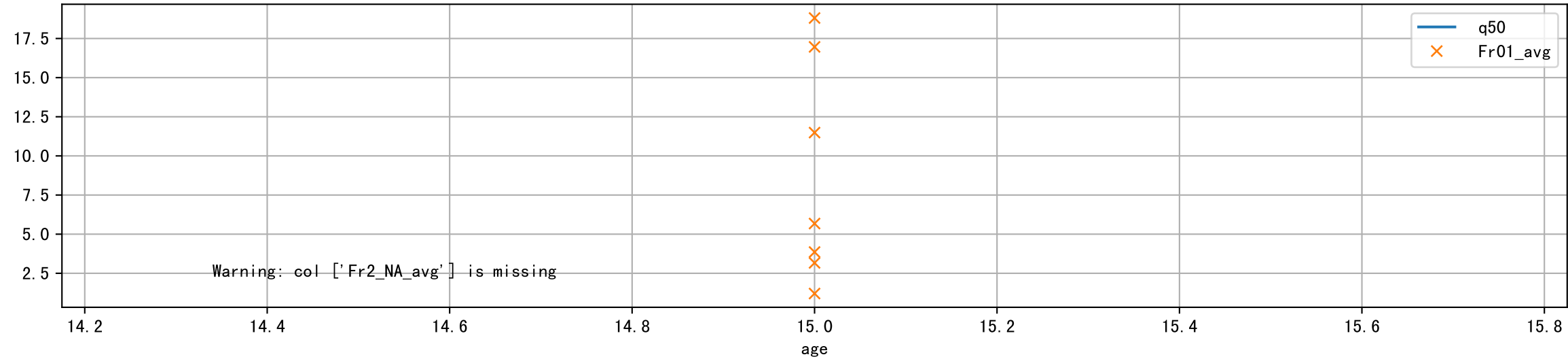
age=15



FrV: model Est vs obsFrV at Q90

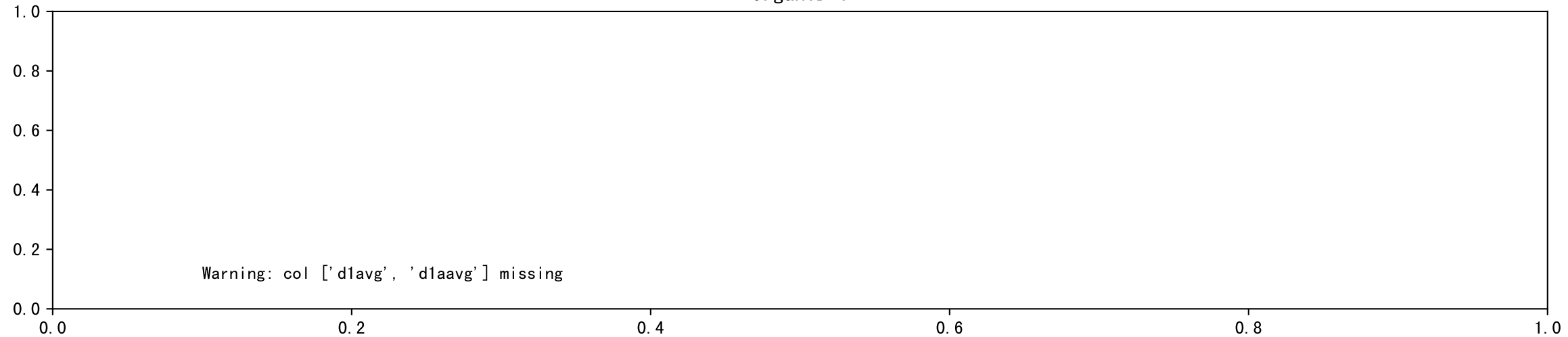


FrV: obsFrV vs obsFrV@Q90



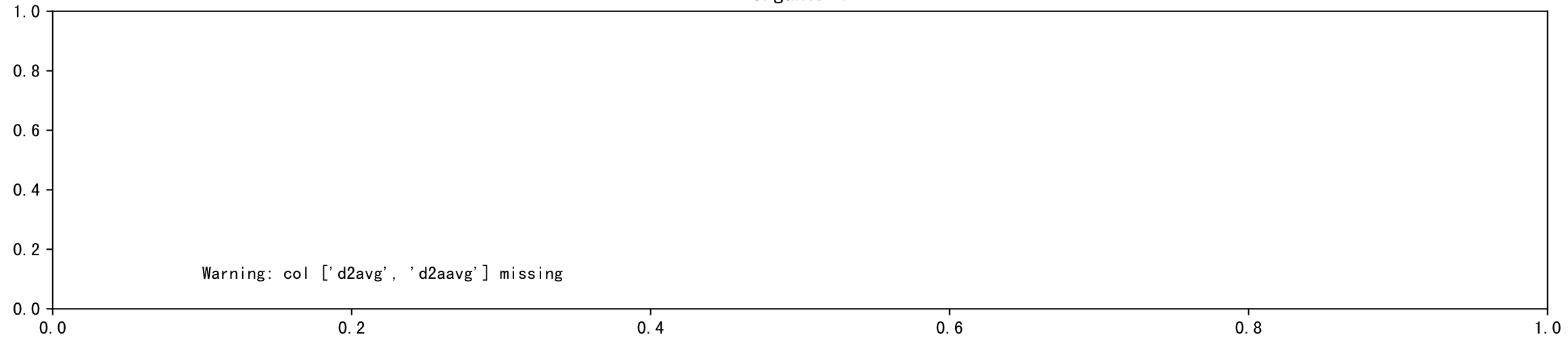
FrV: D_Fr1_FrV
organID=1

Warning: col ['d1avg', 'd1aavg'] missing

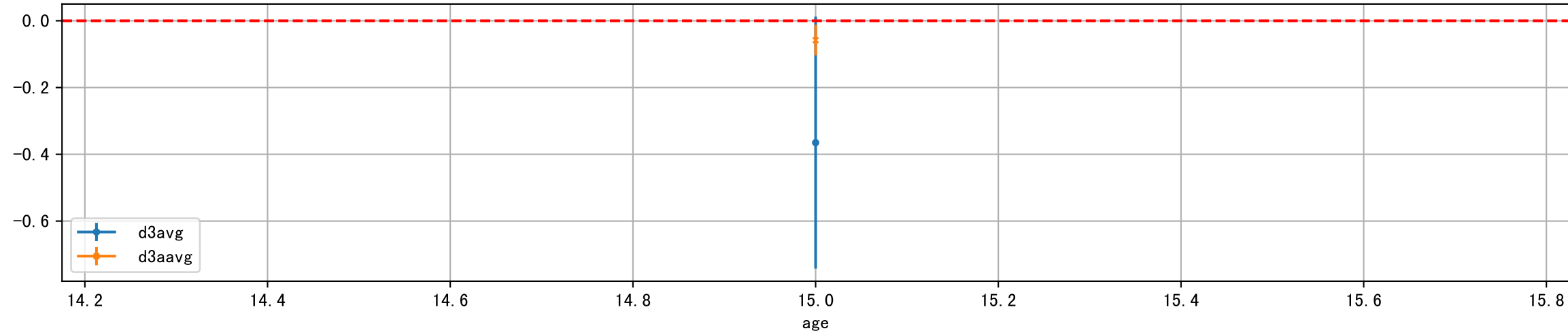


FrV: D_Ts_FrV
organID=1

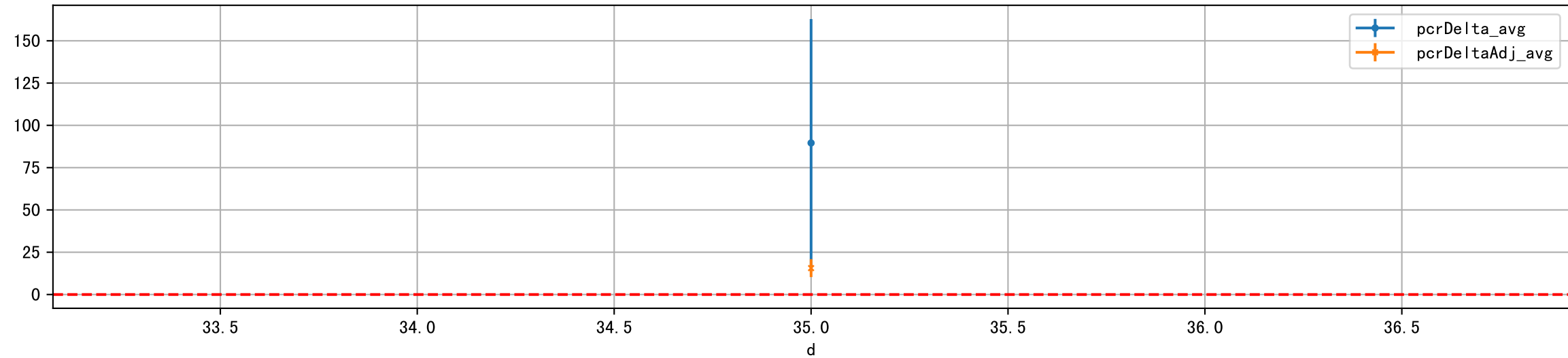
Warning: col ['d2avg', 'd2aavg'] missing



FrV: D_Q50_FrV
organID=1



P3 FrV: D_Q50_FrV



FrV: D_Est_FrV
organID=1

