

Phenotype Data Analysis Plots

PhenoData day range = 5 – 53

Analysis cutoff day = 53

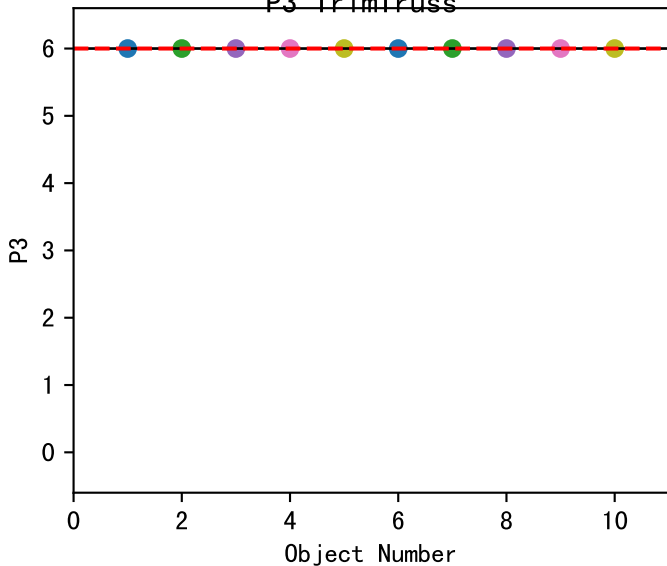
NC11 P3

2025-05-29 (Day 54)

TrussNodeMaxPerStem (Def=6.0 Set=6)

avg1=6.0~0% avg2=na

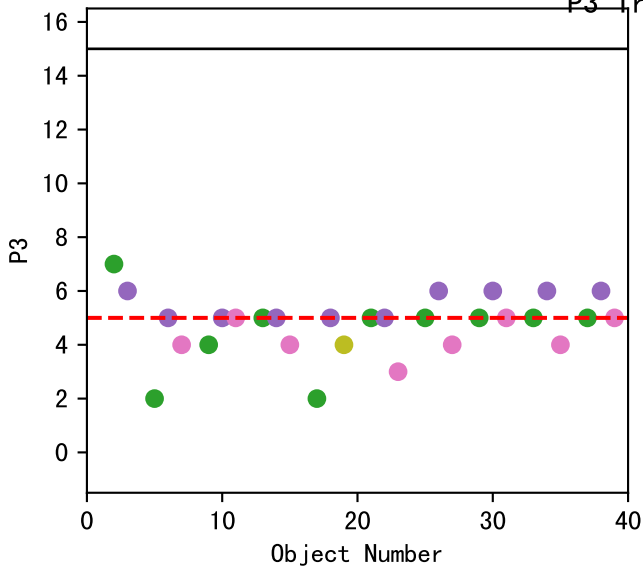
P3 TrimTruss



FruitNumAvgPerTruss (Def=15 Set=5)

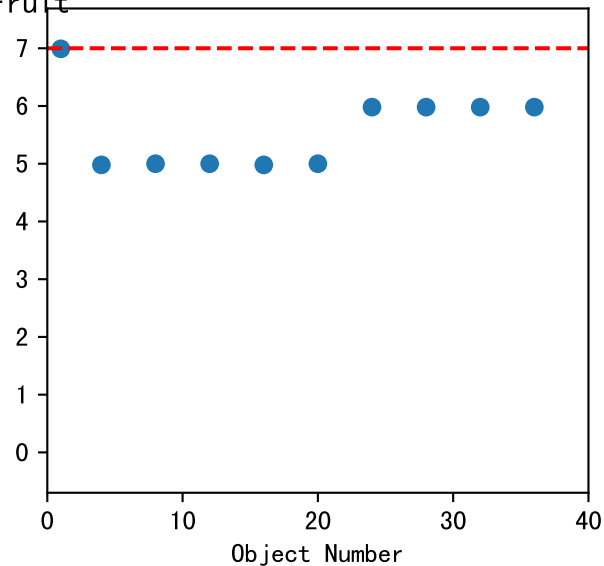
avg1=5.0~15% avg2=na

P3 TrimFruit

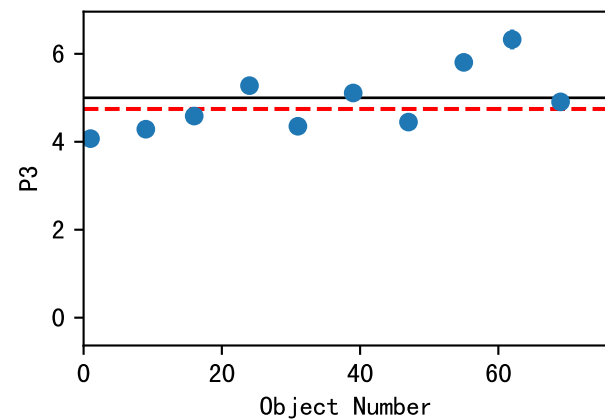


FruitNumMaxPerTruss (Def=na Set=7)

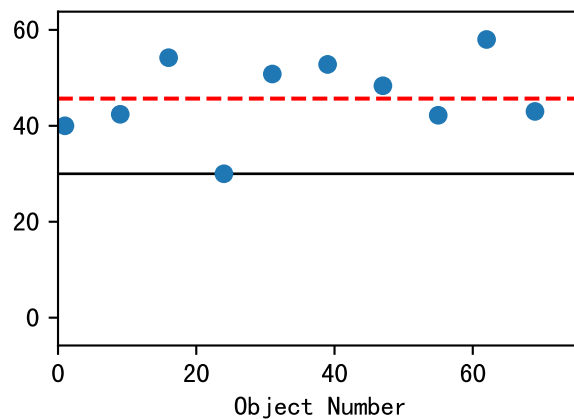
avg1=7.0~11% avg2=na



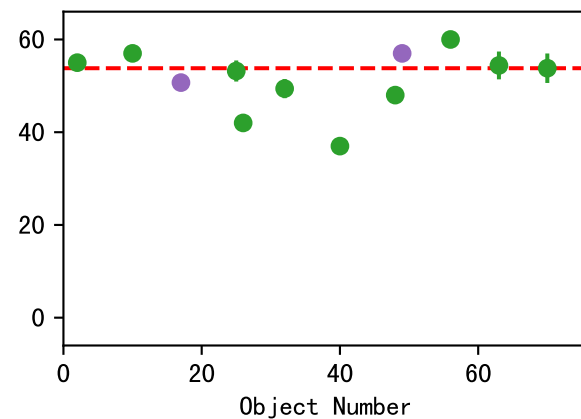
NdL_Q90AbsY (Def=5 Set=4.75)
avg1=4.75~15% avg2=na



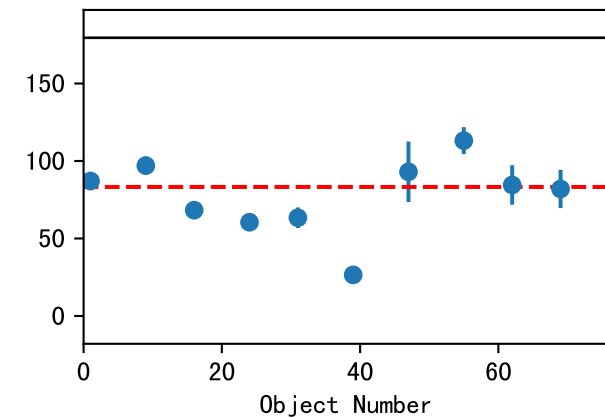
LfW_Q90AbsY (Def=30 Set=45.67)
avg1=45.67~8% avg2=na



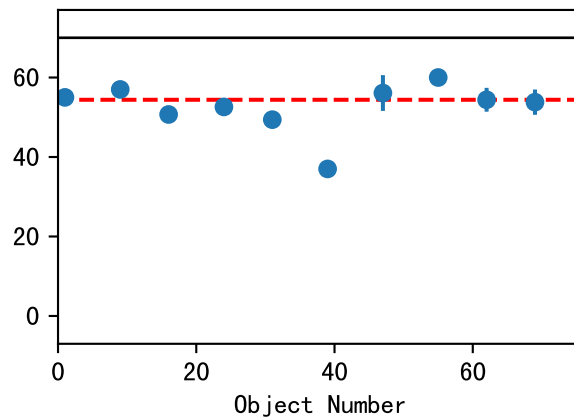
FrD_avgAbsY (Def=na Set=53.8)
avg1=53.8~9% avg2=na



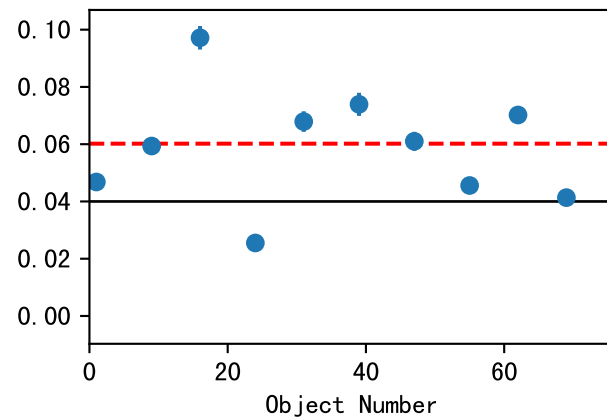
FrV_Q90AbsY (Def=179.5 Set=83.24)
avg1=83.24~29% avg2=na



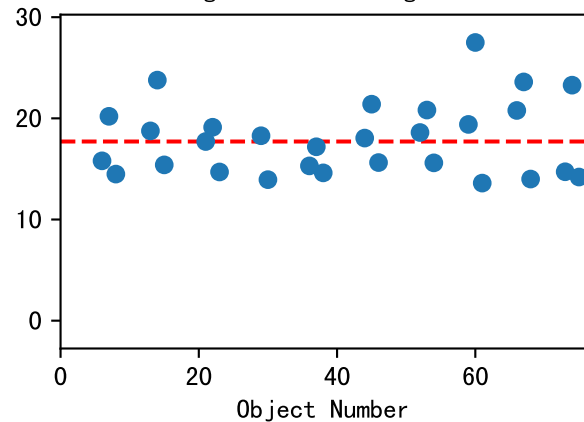
FrD_Q90AbsY (Def=70 Set=54.4)
avg1=54.4~6% avg2=na



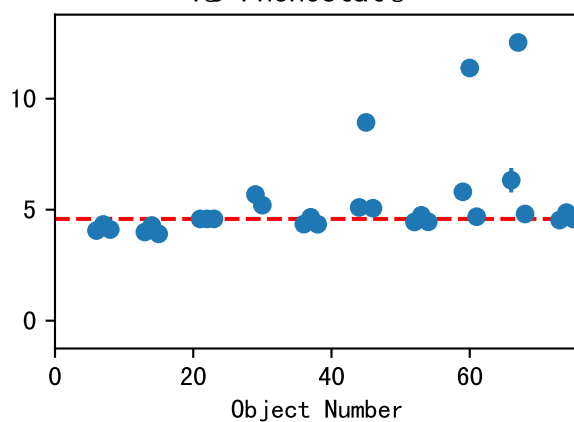
LfA_Q90AbsY (Def=0.04 Set=0.06)
avg1=0.06~33% avg2=na



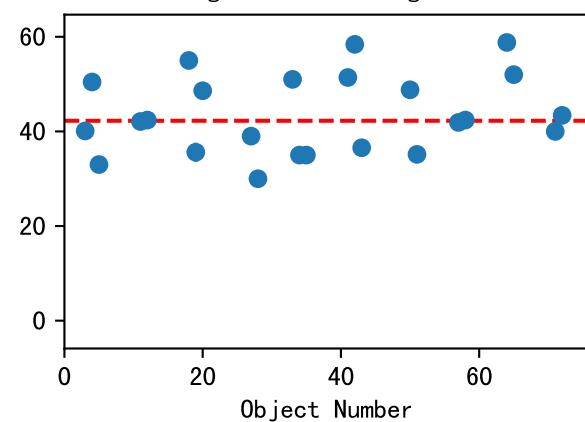
NdD_avgAbsY (Def=na Set=17.71)
avg1=17.71~20% avg2=na



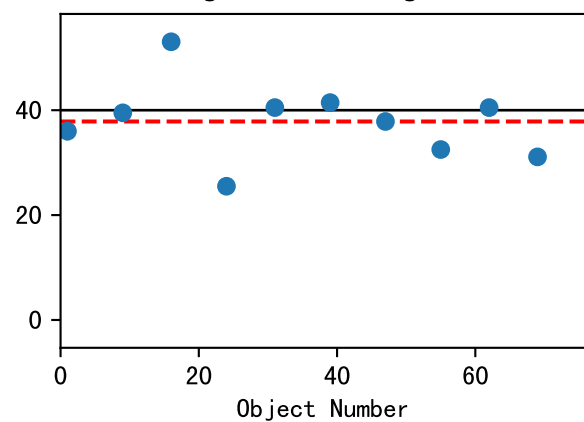
NdL_avgAbsY (Def=na Set=4.58)
avg1=4.58~19% avg2=na



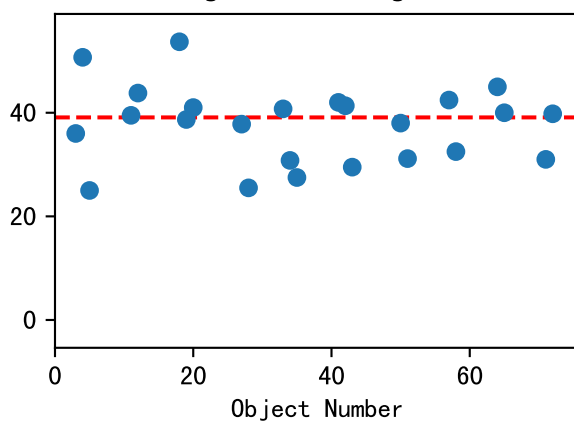
LfW_avgAbsY (Def=na Set=42.25)
avg1=42.25~19% avg2=na



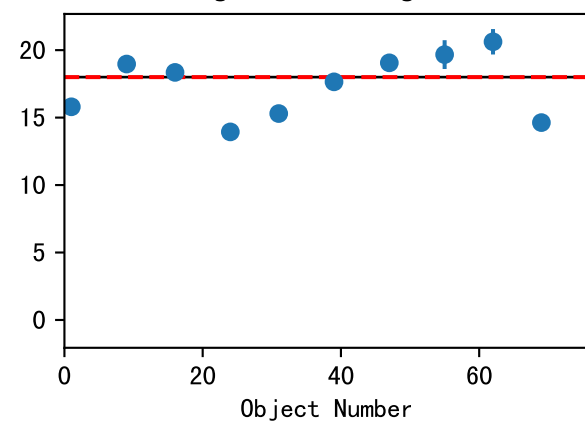
LfL_Q90AbsY (Def=40 Set=37.85)
avg1=37.85~14% avg2=na



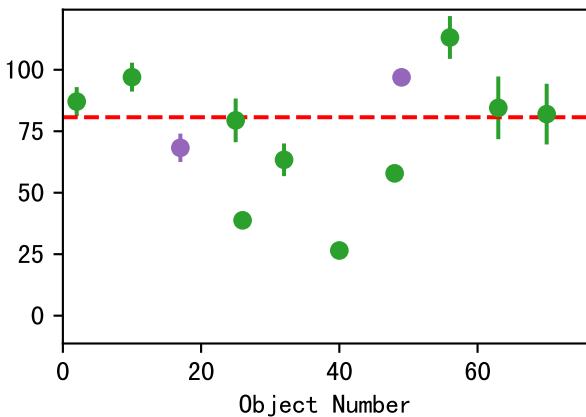
LfL_avgAbsY (Def=na Set=39.1)
avg1=39.1~19% avg2=na



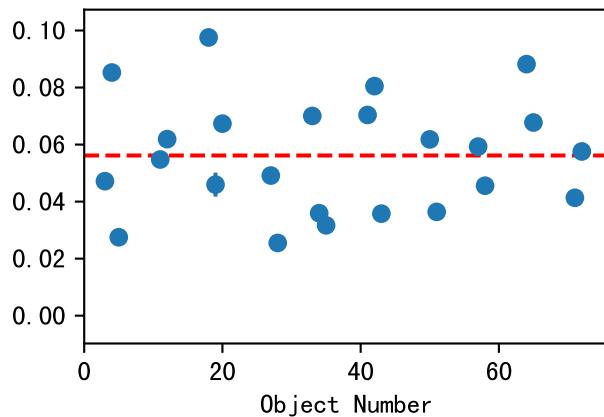
NdD_Q90AbsY (Def=18 Set=18.0)
avg1=18.0~13% avg2=na



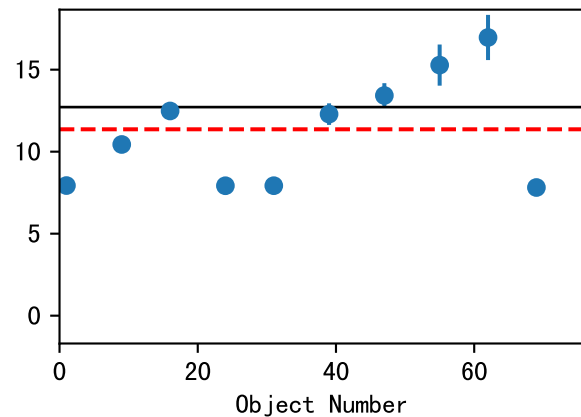
FrV_avgAbsY (Def=na Set=80.69)
avg1=80.69~31% avg2=na



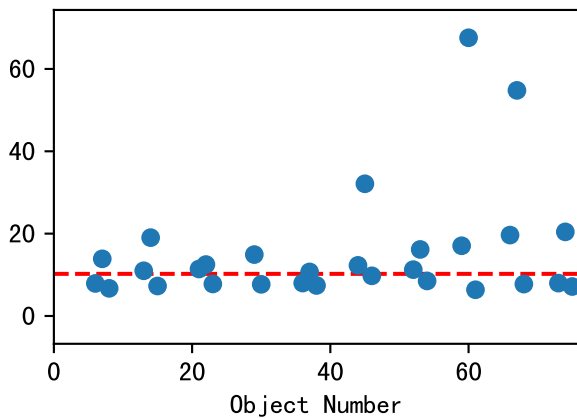
LfA_avgAbsY (Def=na Set=0.06)
avg1=0.06~35% avg2=na



NdV_Q90AbsY (Def=12.72 Set=11.36)
avg1=11.36~30% avg2=na

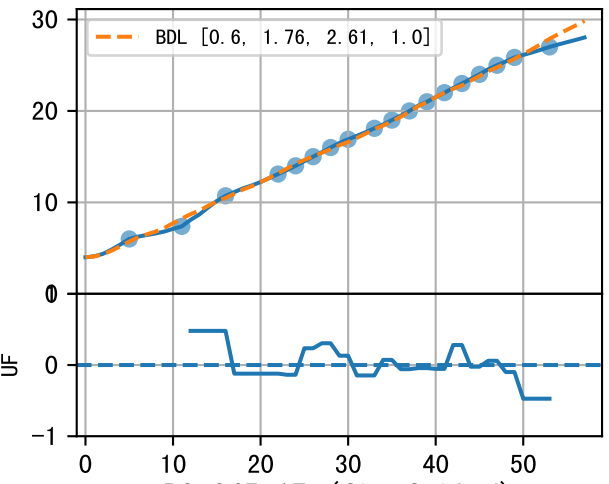


NdV_avgAbsY (Def=na Set=10.23)
avg1=10.23~42% avg2=na

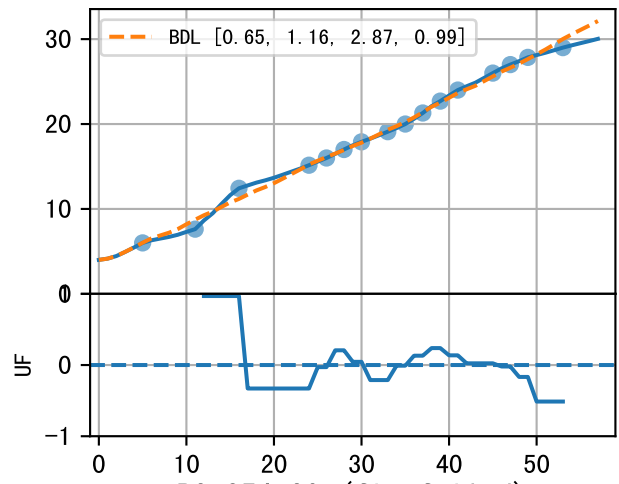


NdN

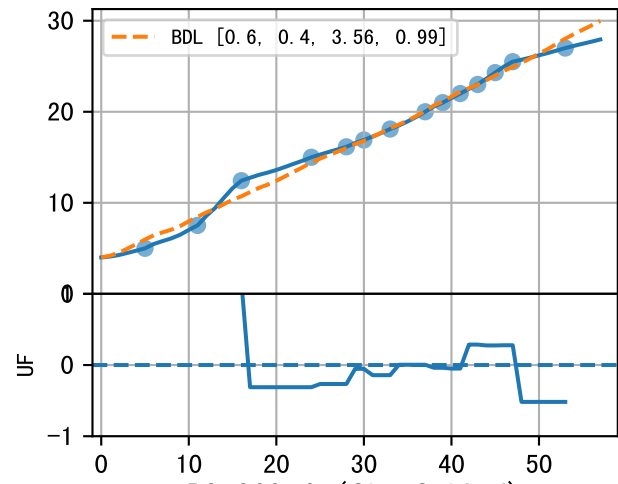
P3-009-13 (fit failed)



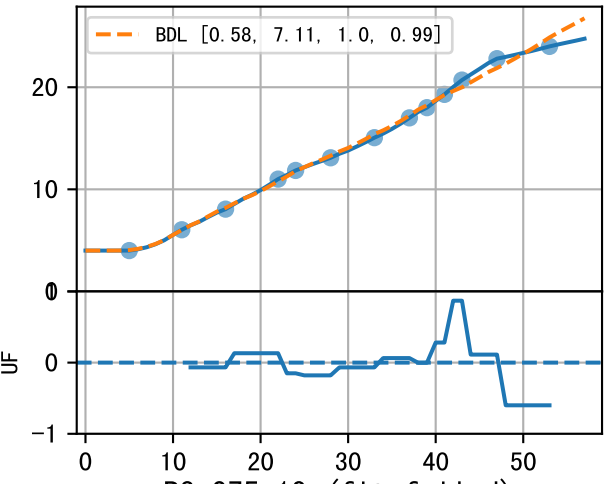
P3-021-19 (fit failed)



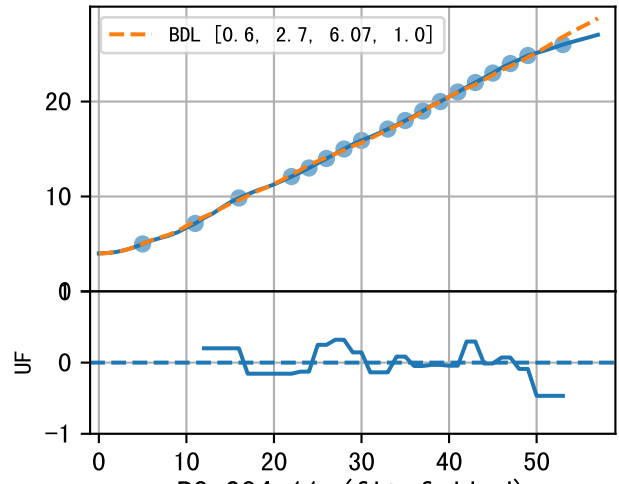
P3-034-5 (fit failed)



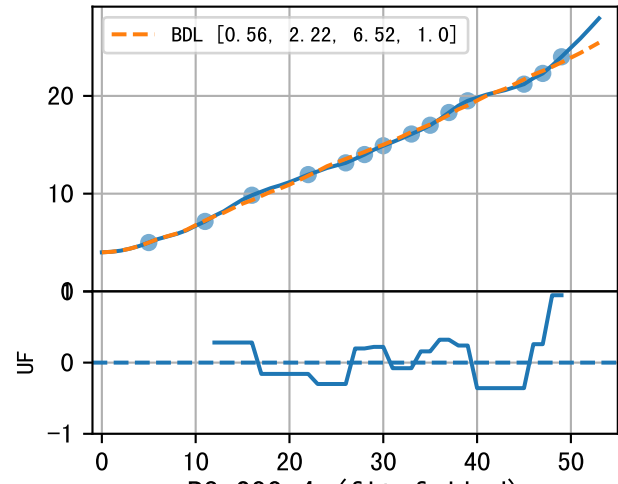
P3-045-17 (fit failed)



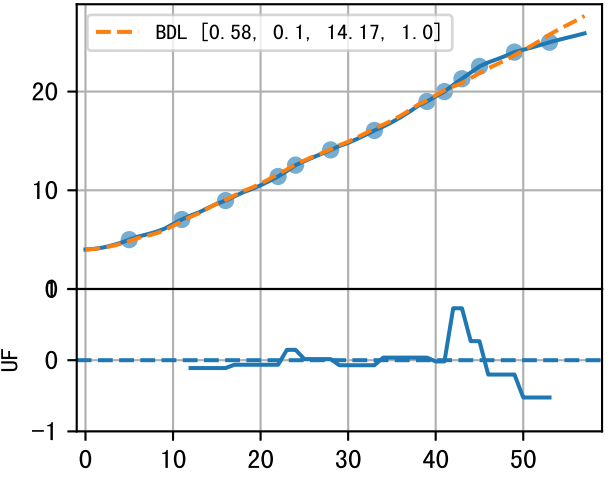
P3-054-28 (fit failed)



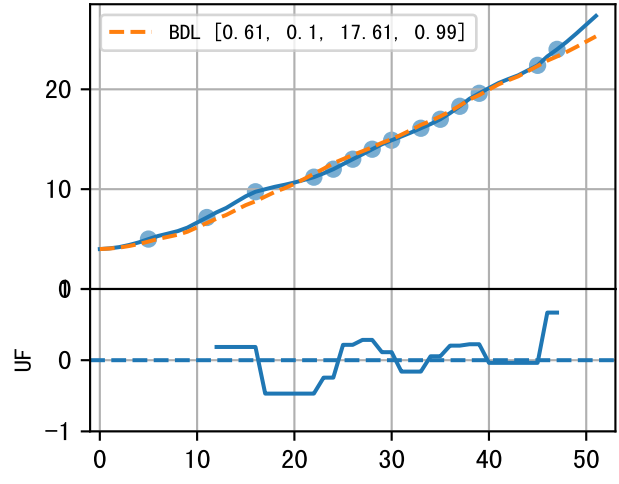
P3-068-4 (fit failed)



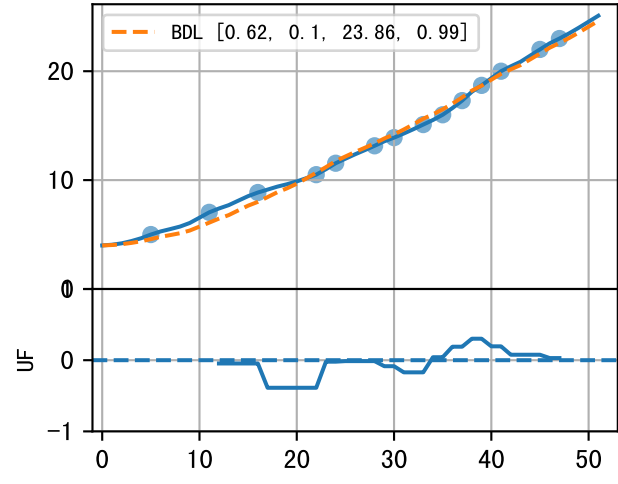
P3-075-19 (fit failed)



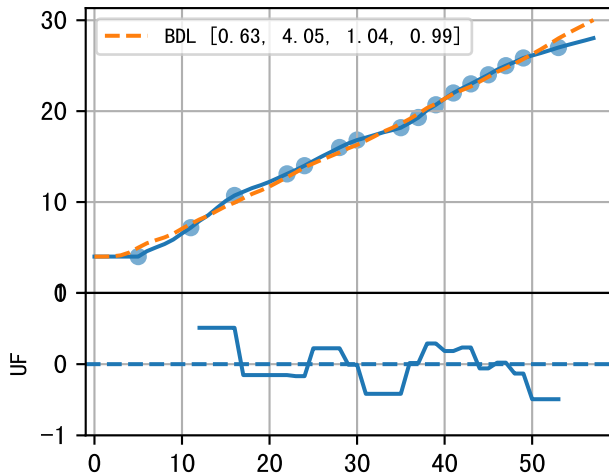
P3-084-11 (fit failed)



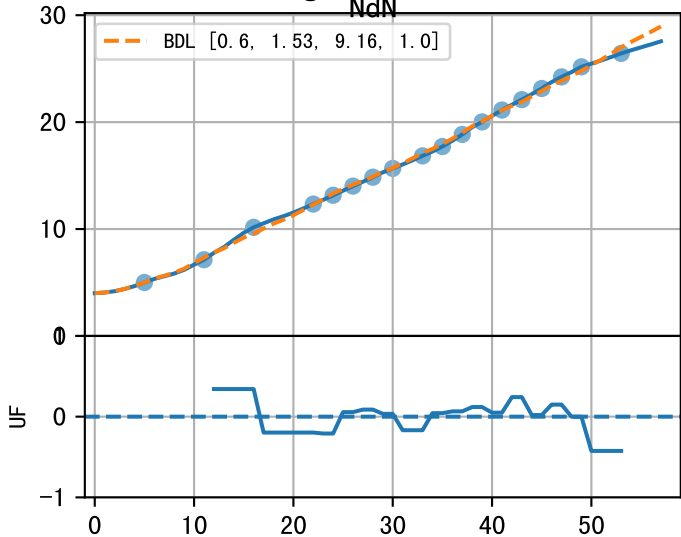
P3-099-4 (fit failed)



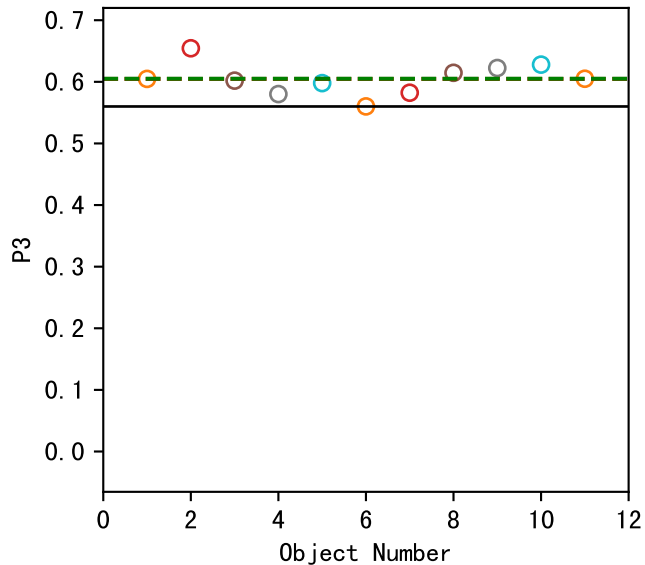
P3-110-23 (fit failed)



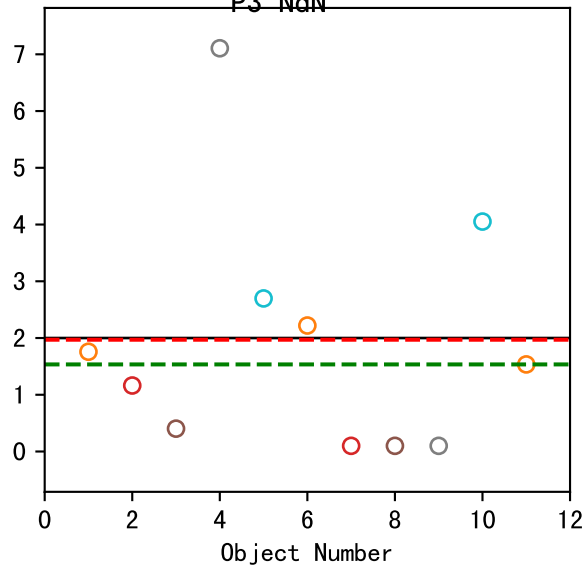
P3avg (fit failed) Ndn



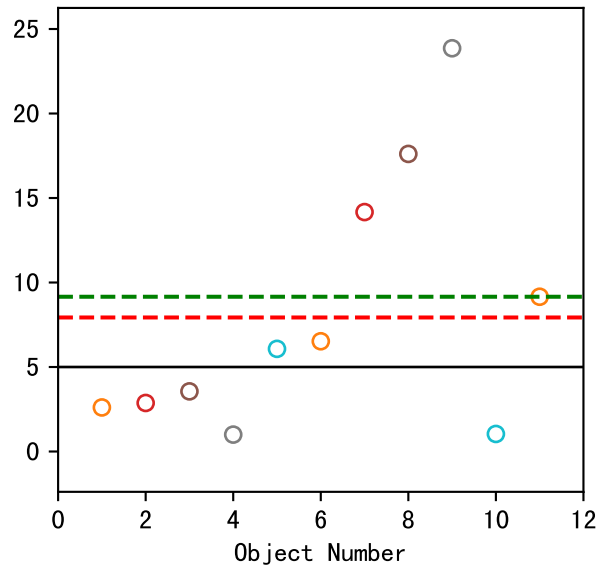
a (Def=0.56 Set=0.6)
avg1=0.6(fail) avg2=0.6



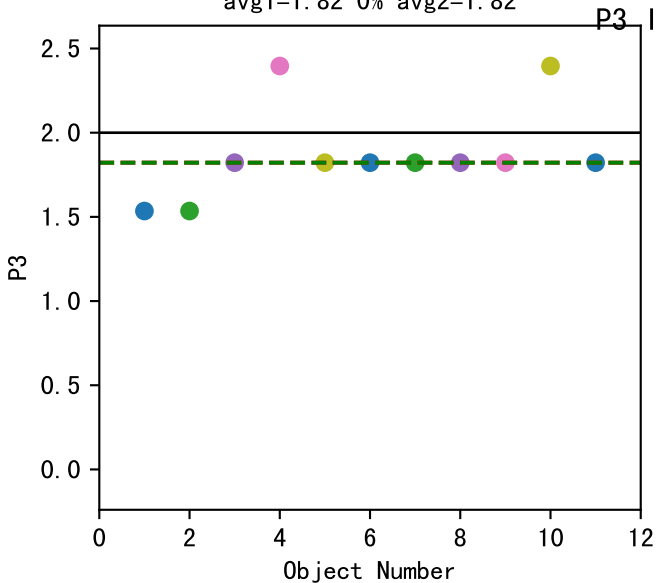
dm (Def=2 Set=1.53)
avg1=1.97(fail) avg2=1.53



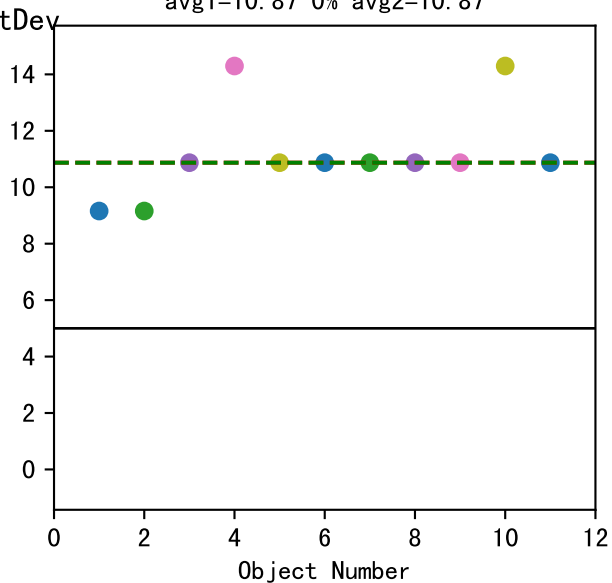
de (Def=5 Set=9.16)
avg1=7.93(fail) avg2=9.16



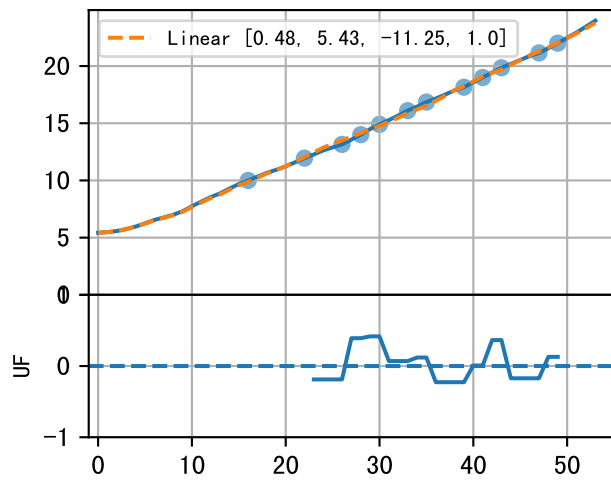
InitDev_dm (Def=2 Set=1.82)
avg1=1.82~0% avg2=1.82



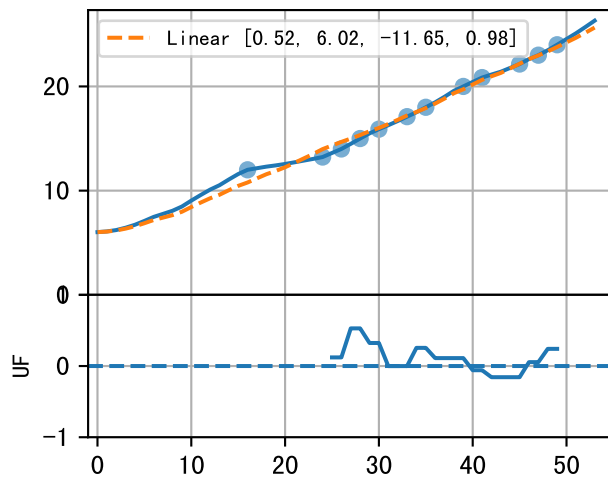
InitDev_de (Def=5 Set=10.87)
avg1=10.87~0% avg2=10.87



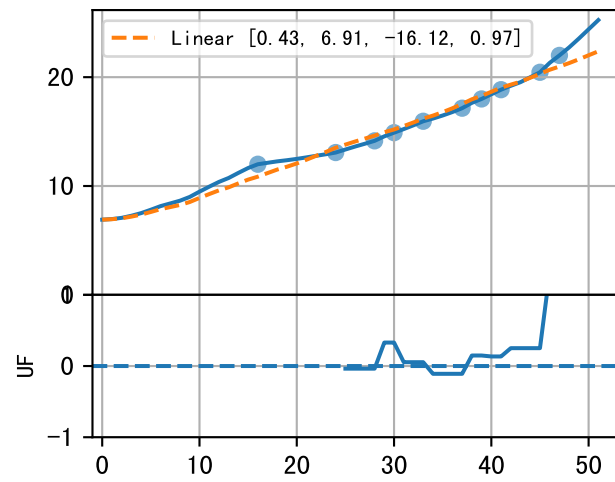
P3-009-13



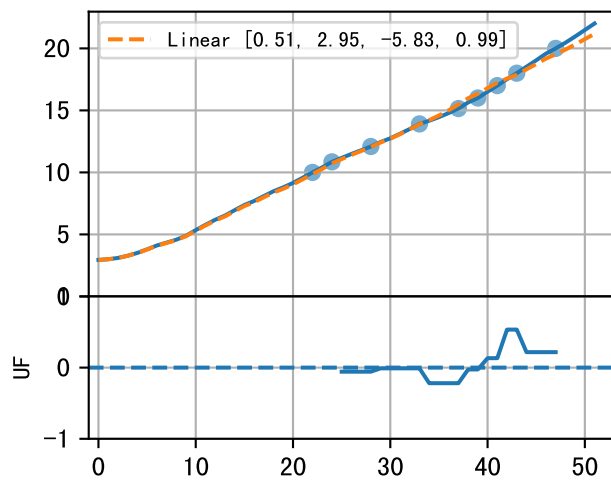
P3-021-19



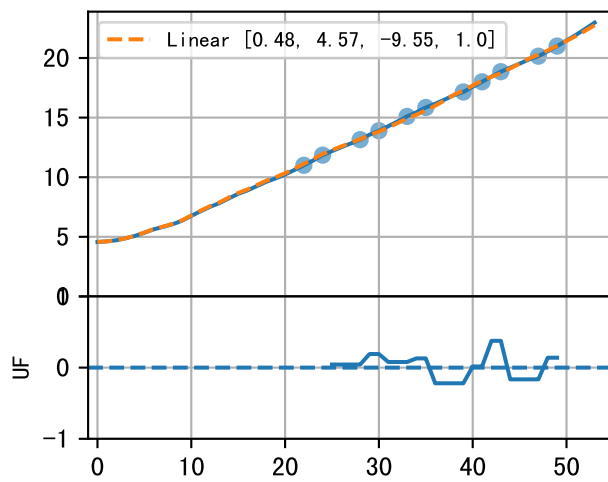
P3-034-5



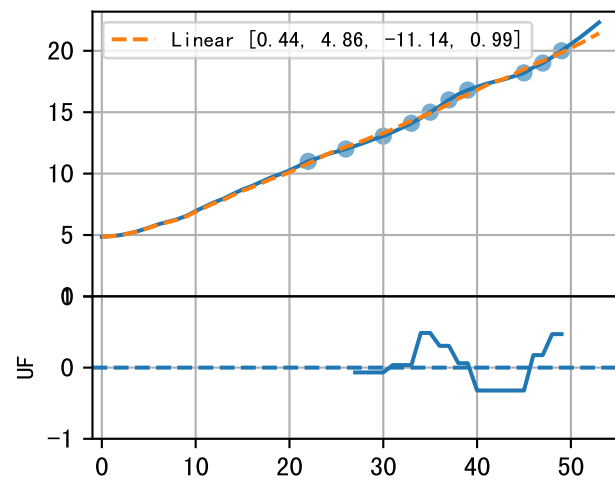
P3-045-17



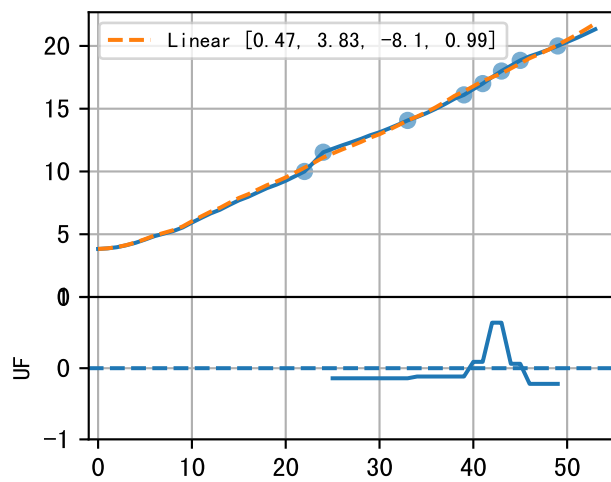
P3-054-28



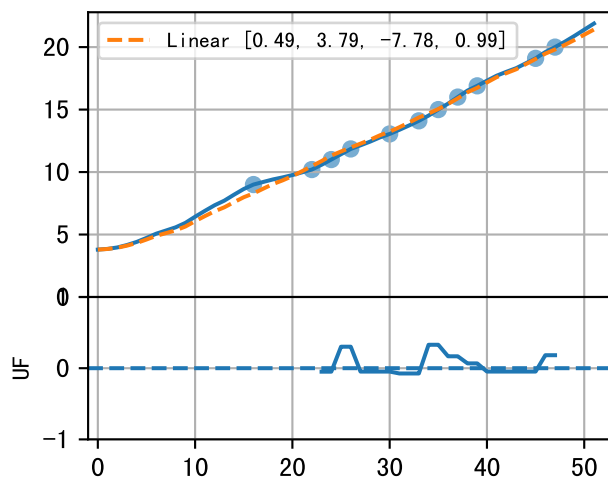
P3-068-4



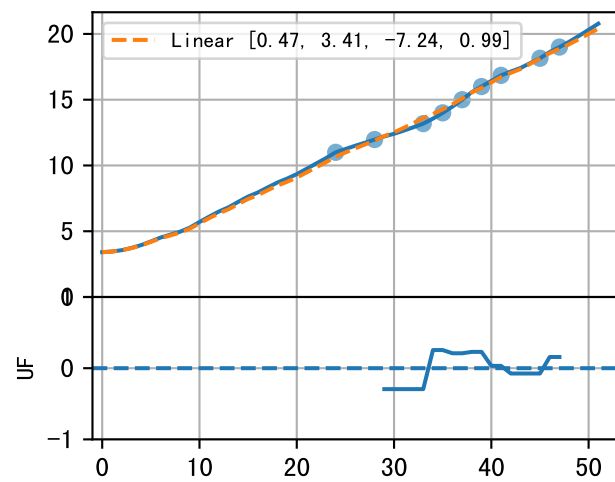
P3-075-19



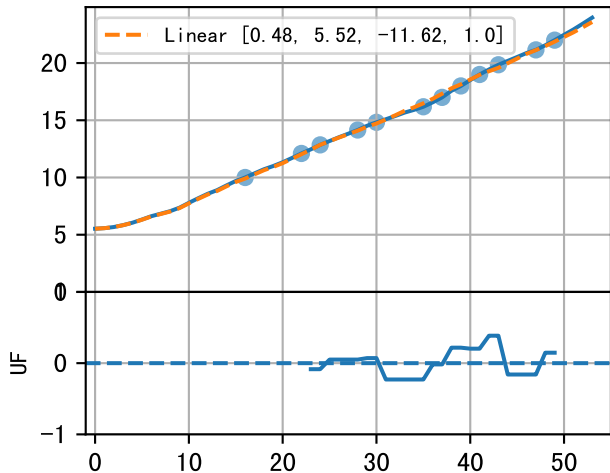
P3-084-11

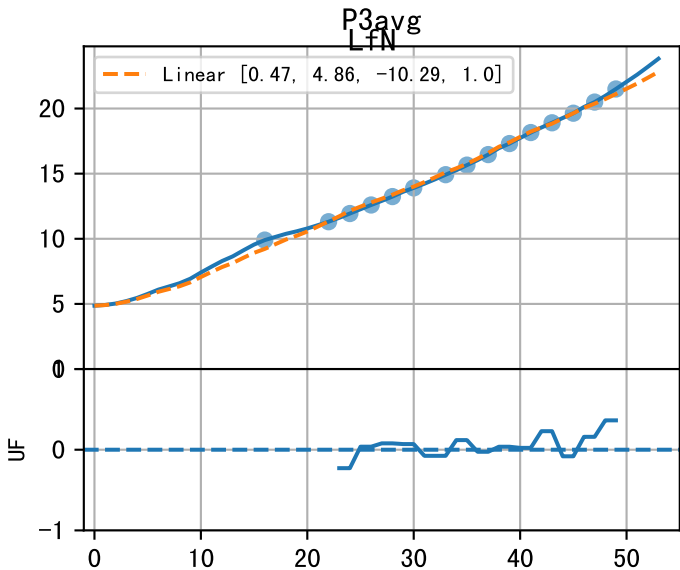


P3-099-4



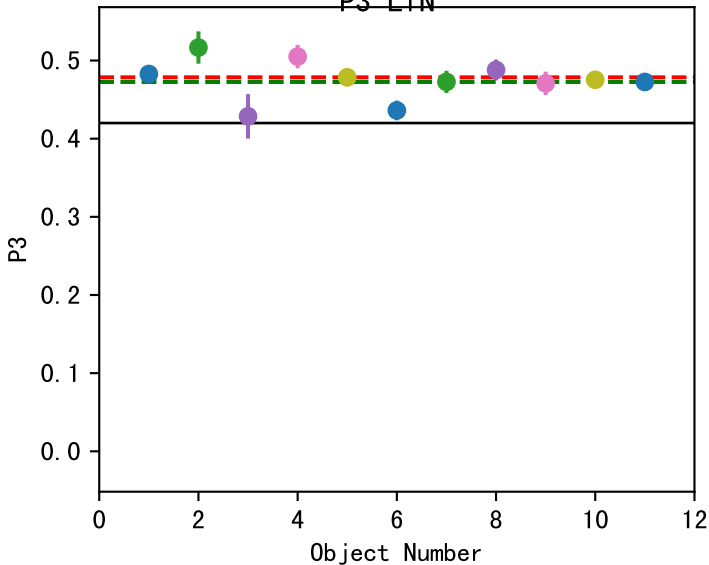
P3-110-23





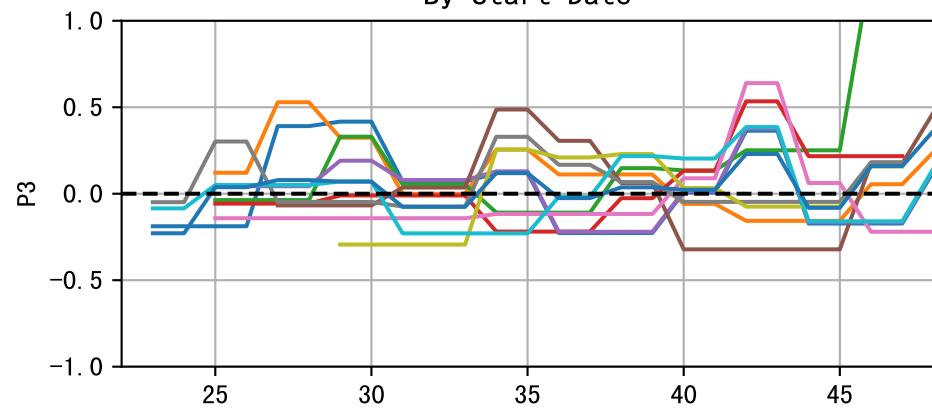
a (Def=0.42 Set=0.47)
 avg1=0.48 $\sim$ 2% avg2=0.47 $\sim$ 6%

P3 LFN

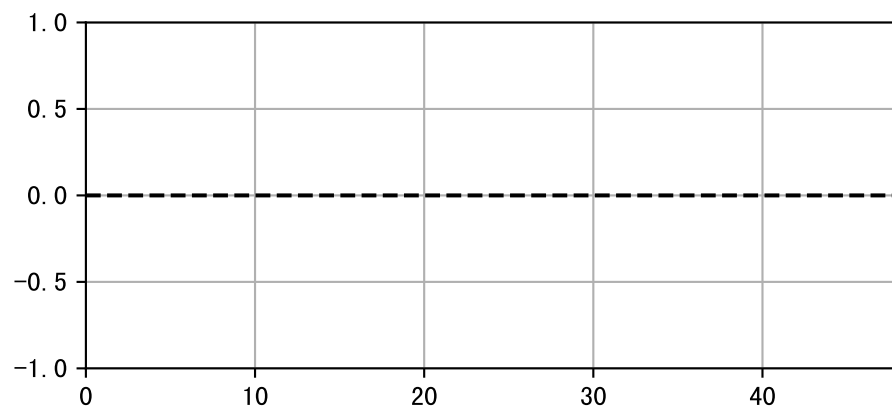
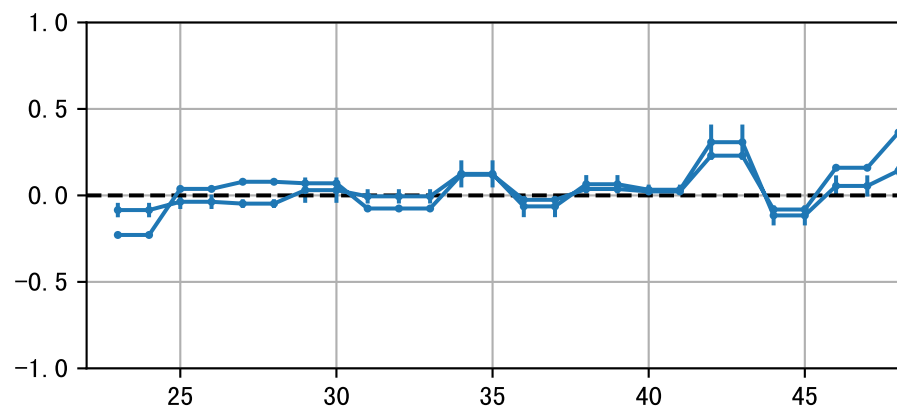
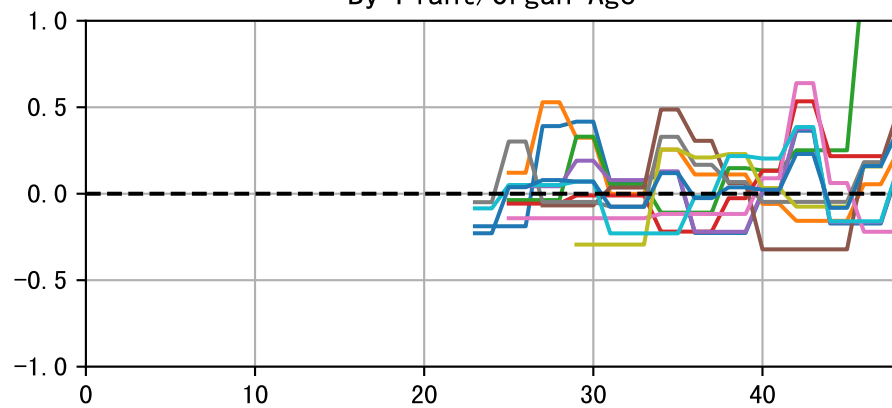


LfN

By Start Date

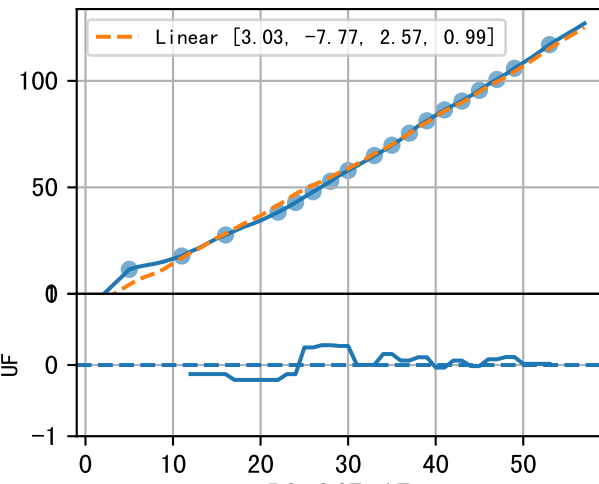


By Plant/Organ Age

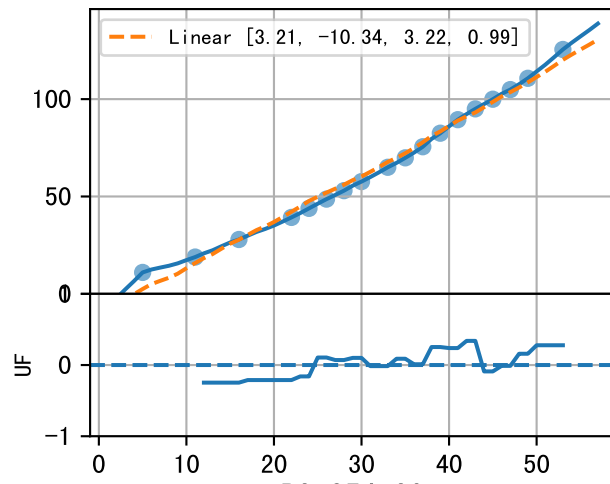


StH

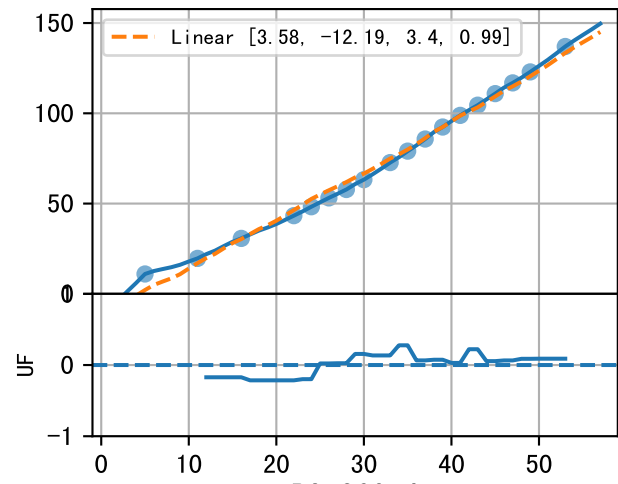
P3-009-13



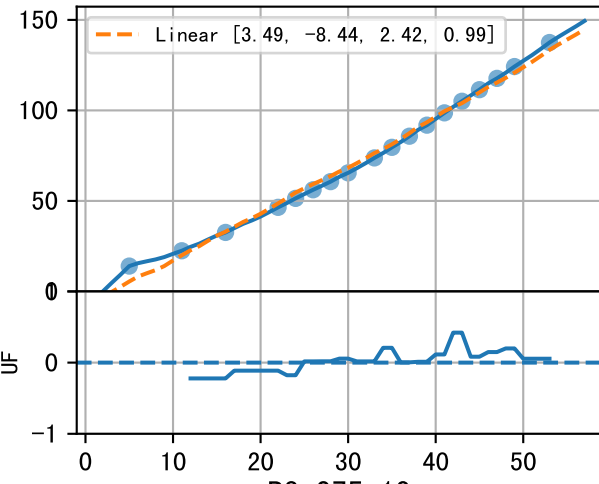
P3-021-19



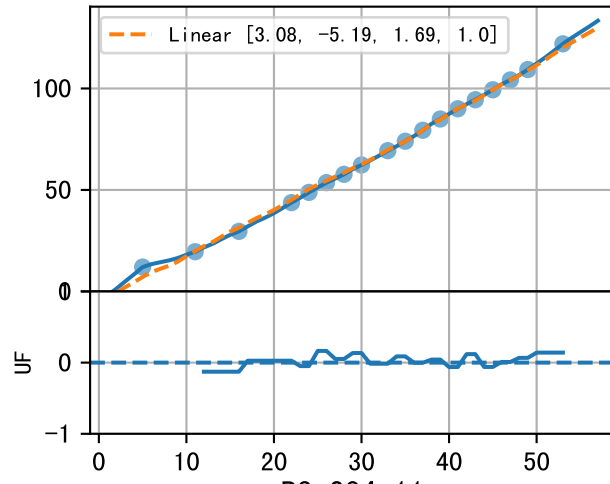
P3-034-5



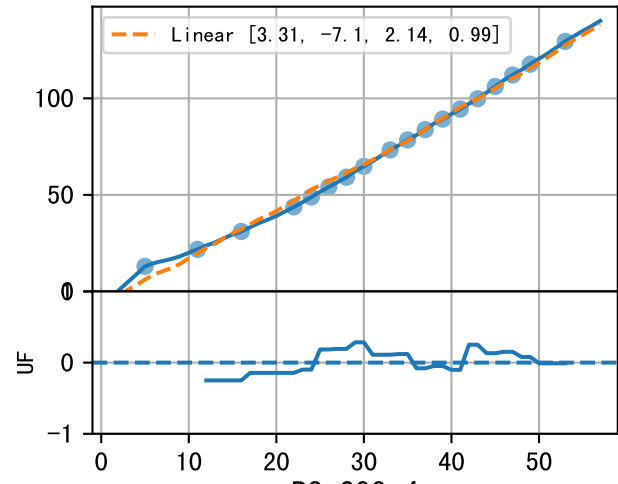
P3-045-17



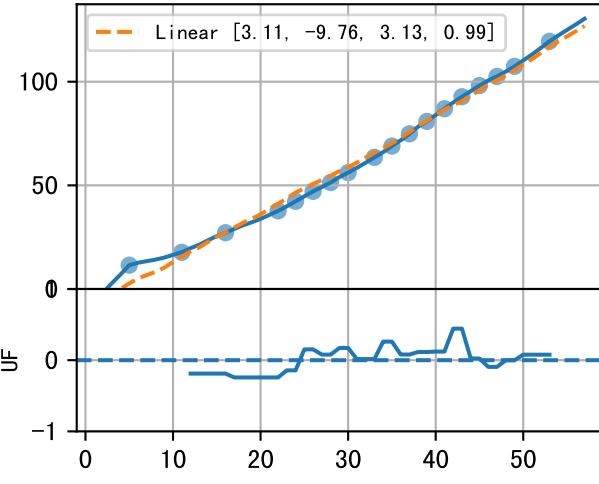
P3-054-28



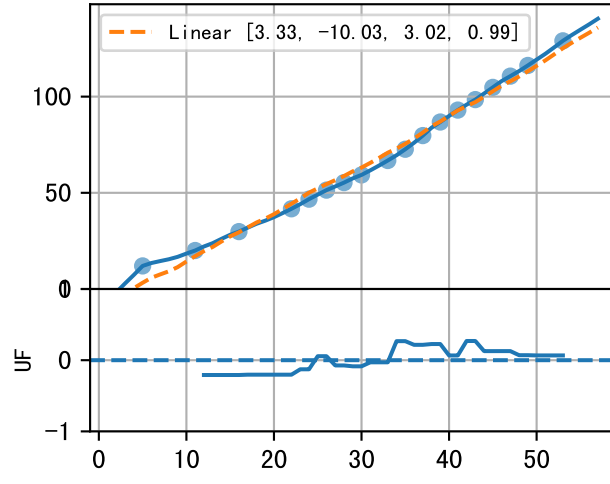
P3-068-4



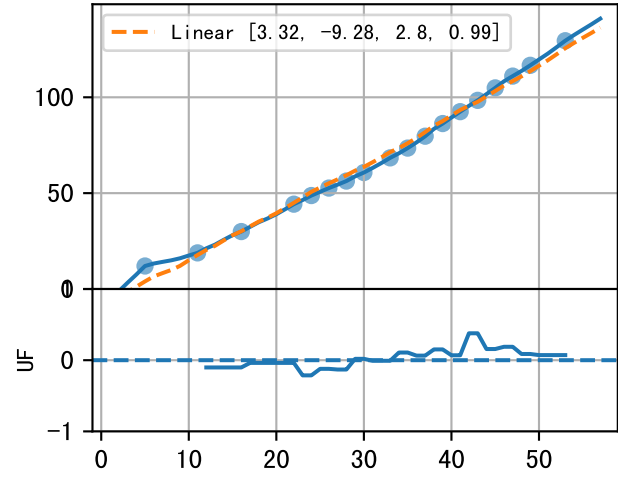
P3-075-19



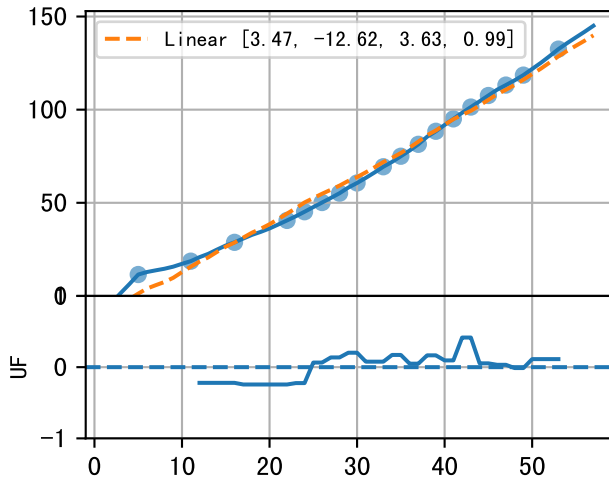
P3-084-11



P3-099-4

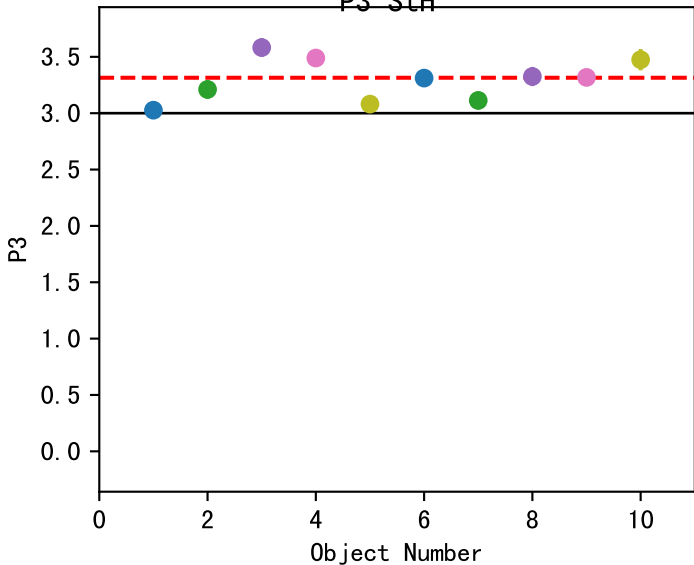


P3-110-23



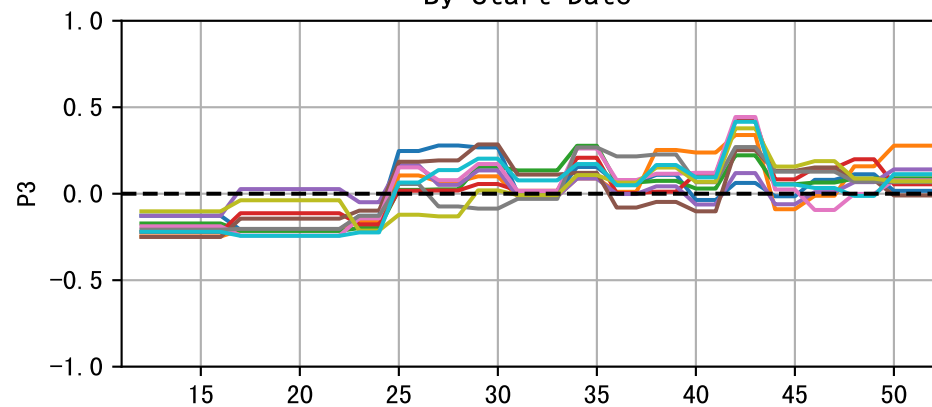
a (Def=3 Set=3.31)
avg1=3.31~6% avg2=na

P3 StH

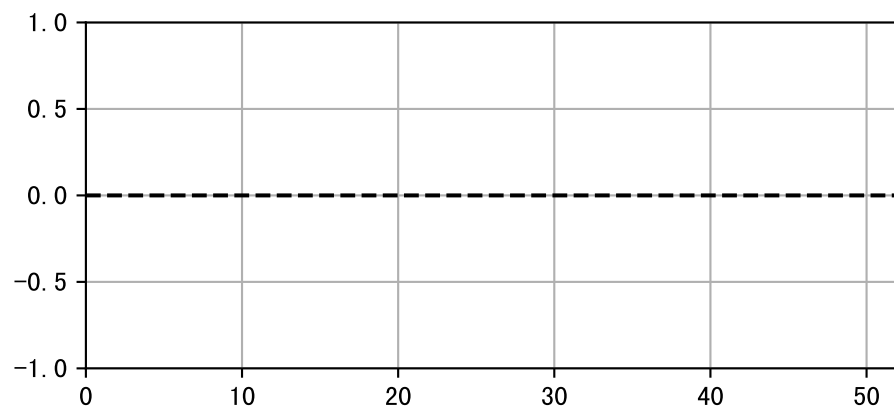
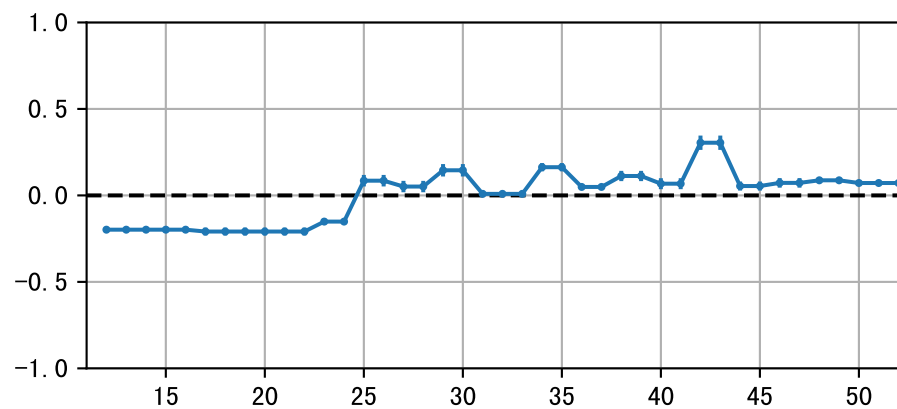
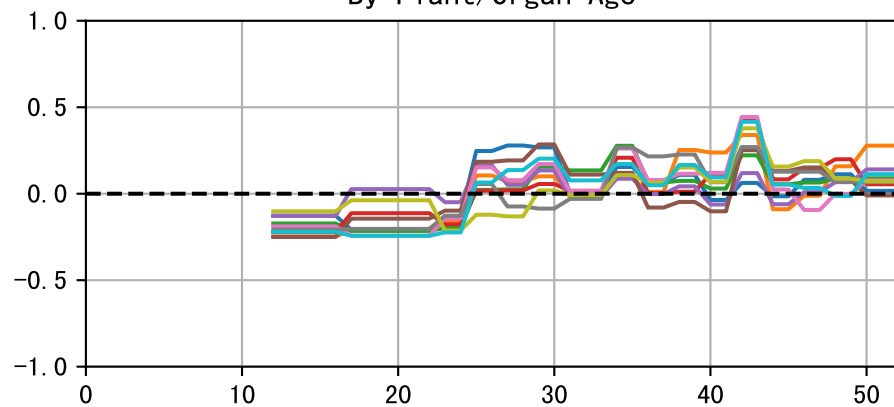


StH

By Start Date

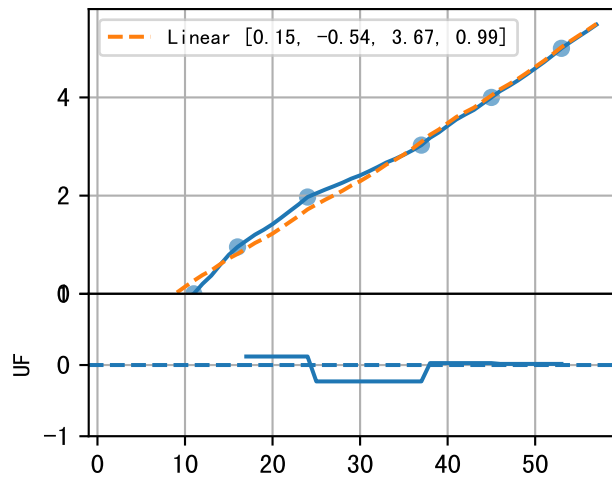


By Plant/Organ Age

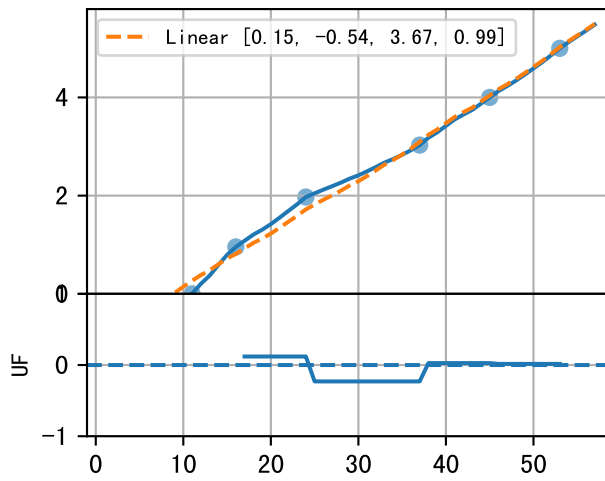


T_{SN}

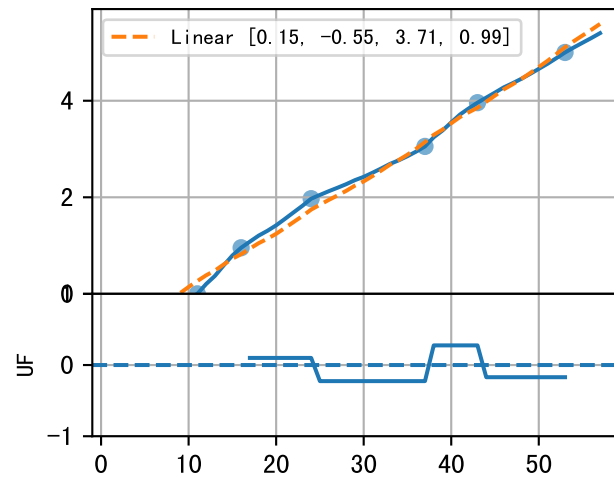
P3-009-13



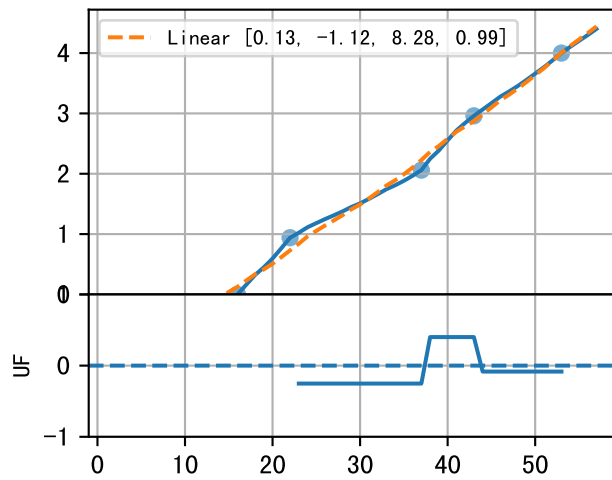
P3-021-19



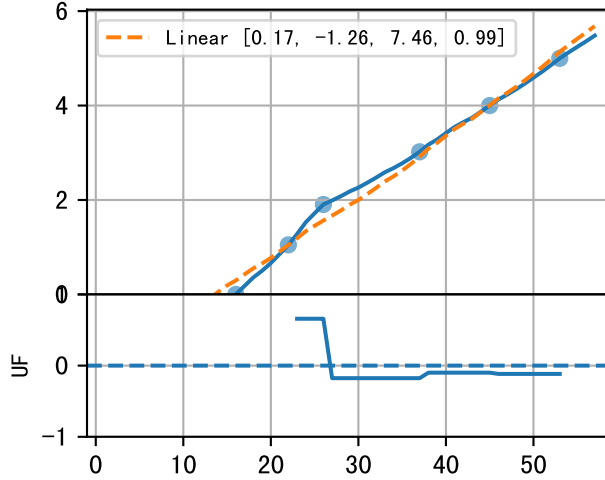
P3-034-5



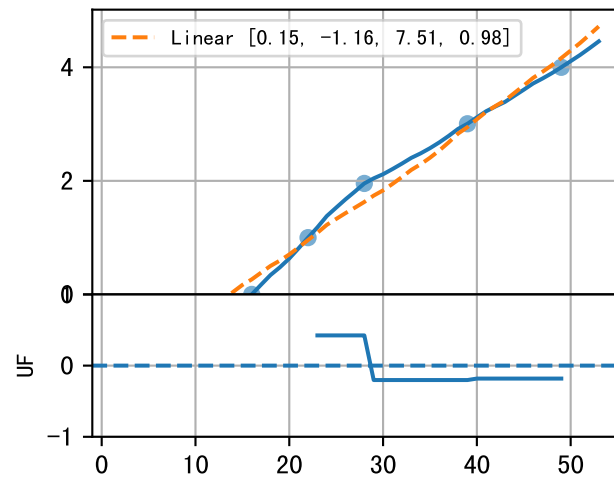
P3-045-17



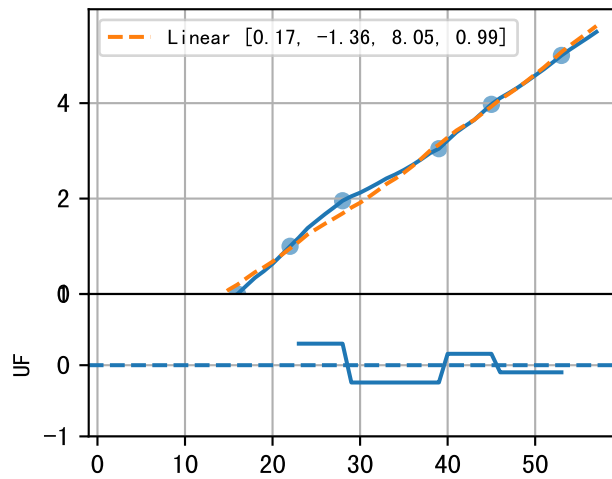
P3-054-28



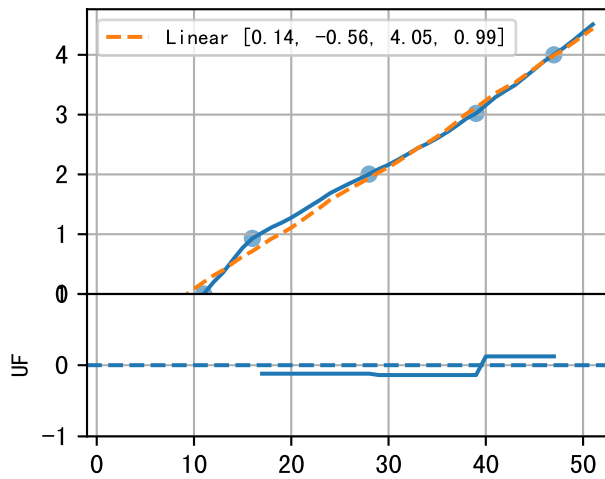
P3-068-4



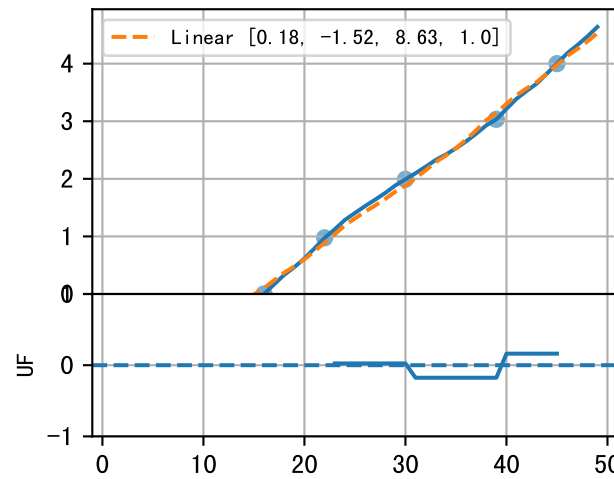
P3-075-19



P3-084-11

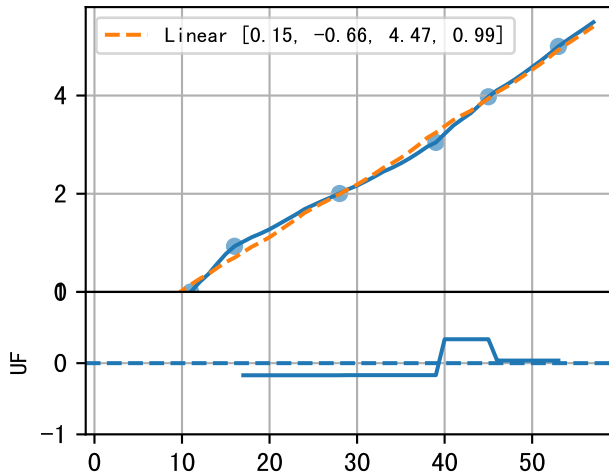


P3-099-4



P3-110-23

TsN



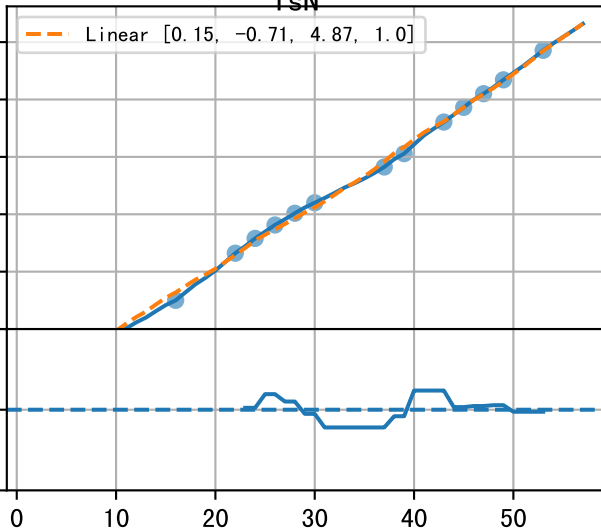
P3avg
Tsn

Linear [0.15, -0.71, 4.87, 1.0]

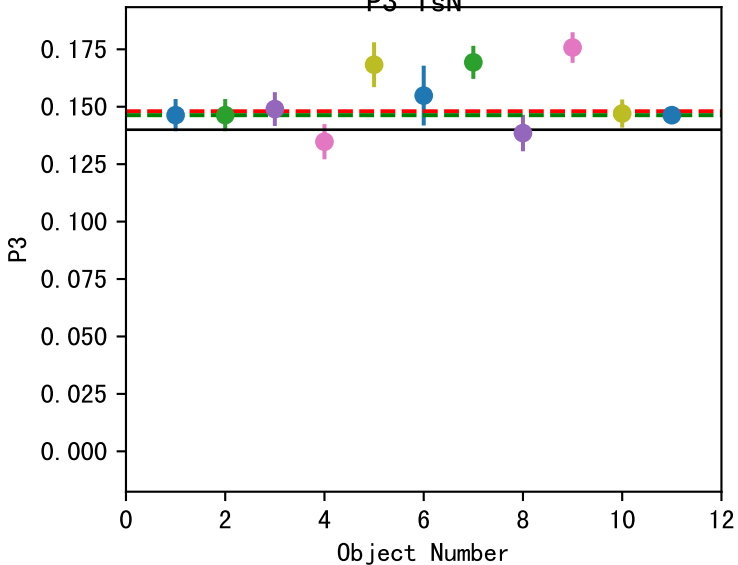
UF

5
4
3
2
1
0
0
-1

0 10 20 30 40 50

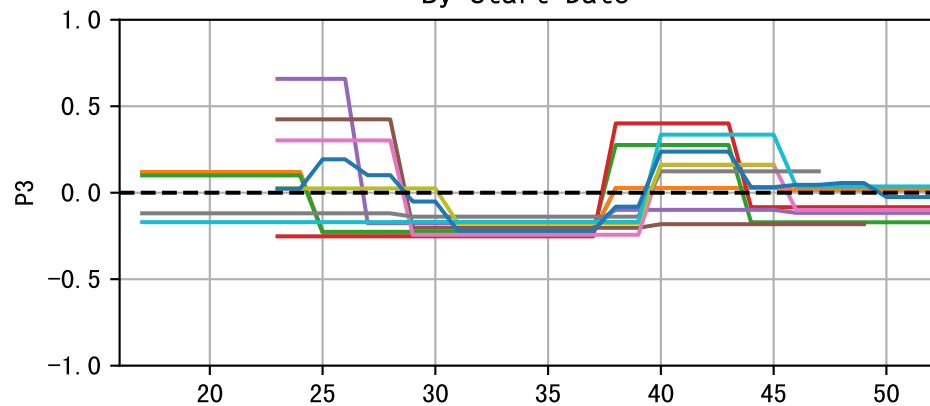


a (Def=0.14 Set=0.15)
avg1=0.15^{~9%} avg2=0.15^{~5%}
P3 TSN

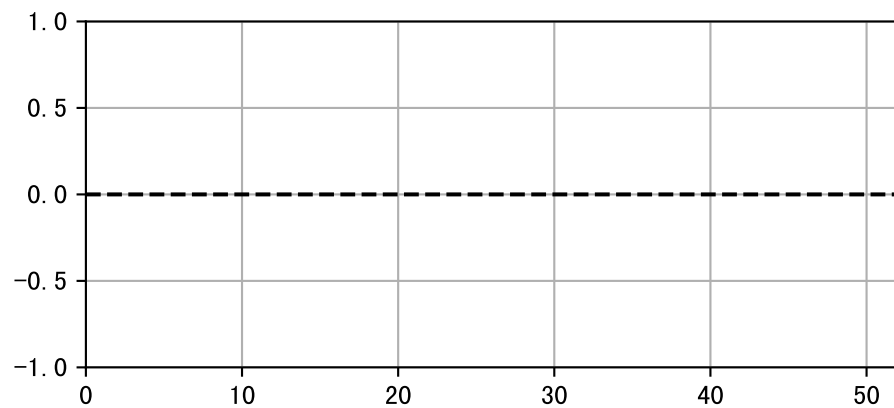
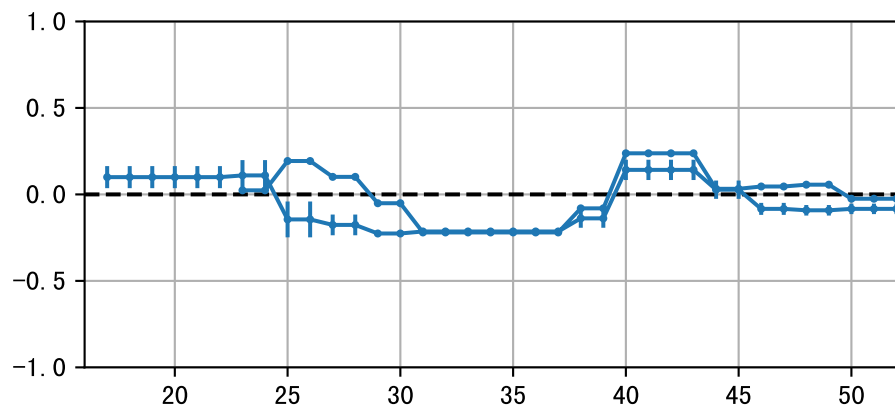
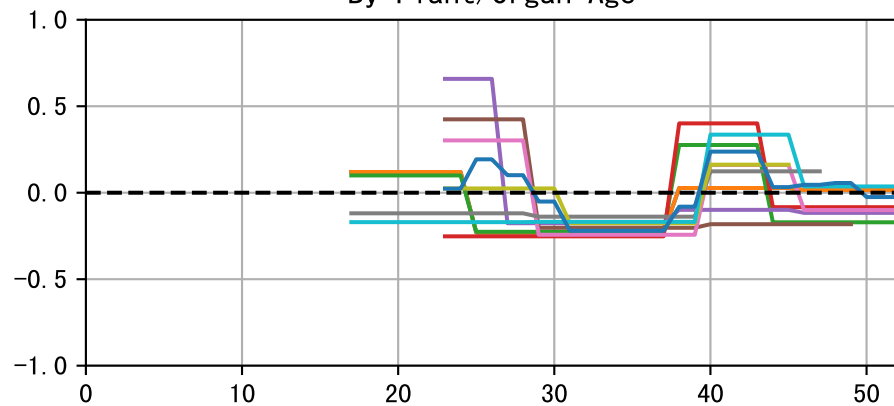


TsN

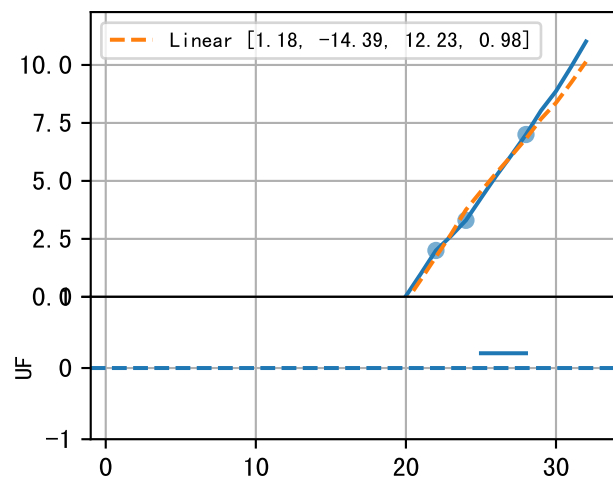
By Start Date



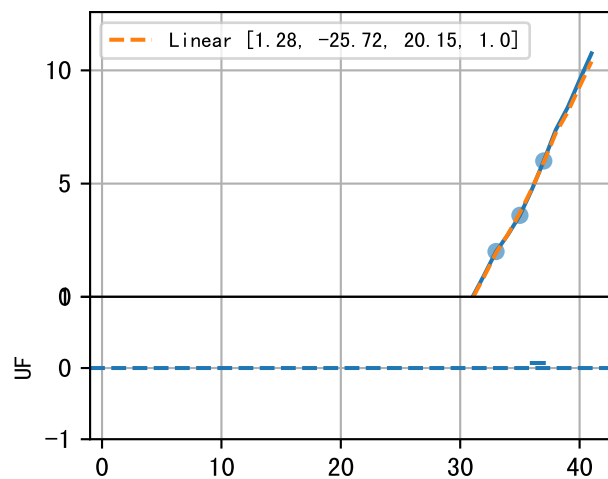
By Plant/Organ Age



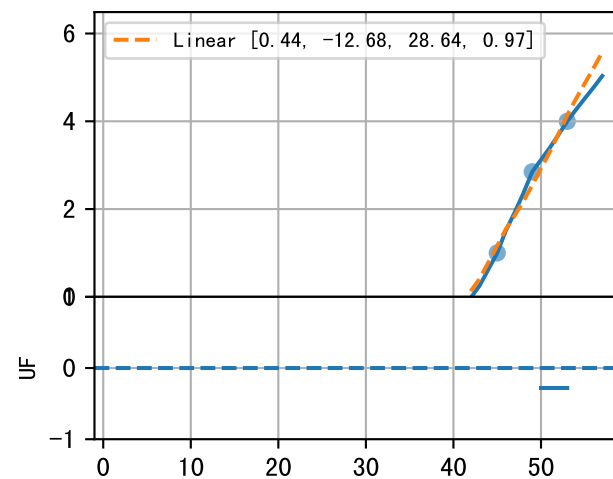
P3-009-13T1



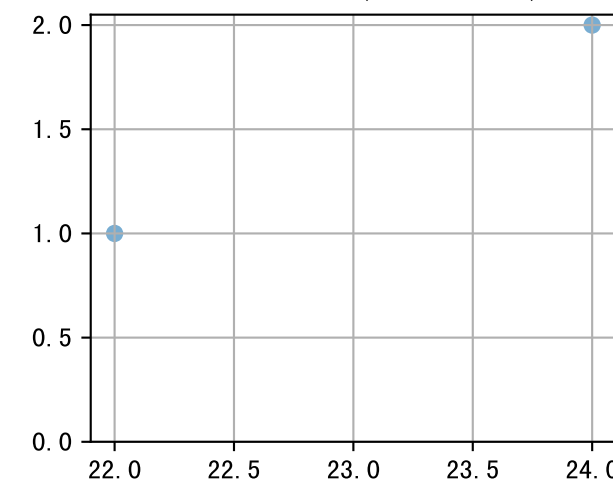
P3-009-13T2



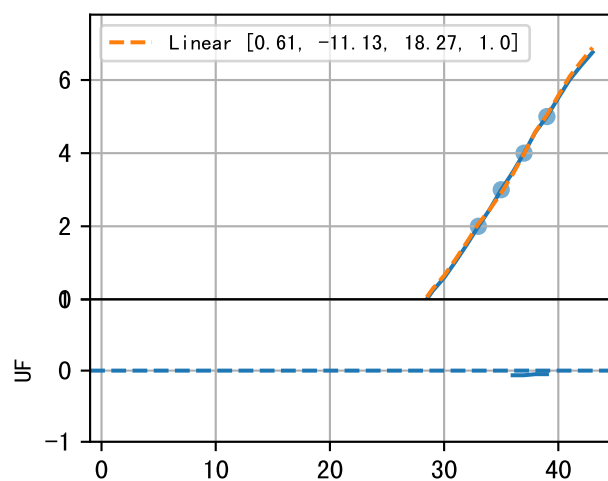
P3-009-13T3



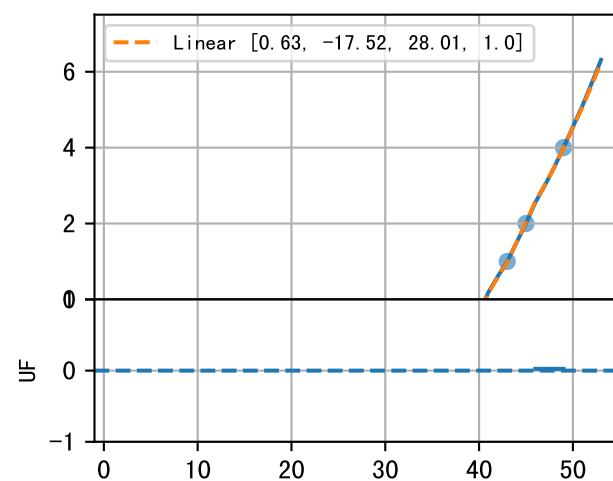
P3-021-19T1 (fit failed)



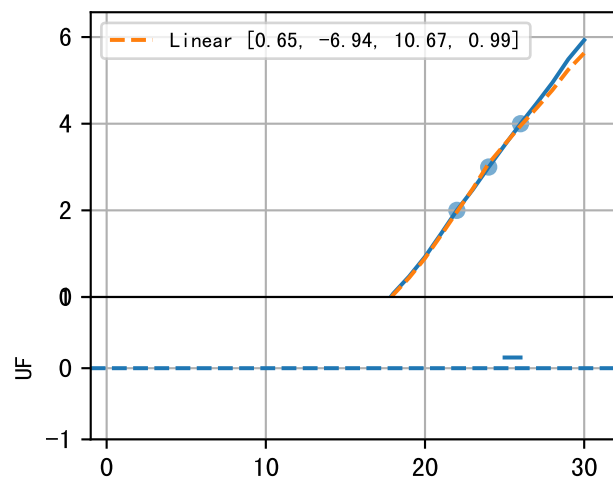
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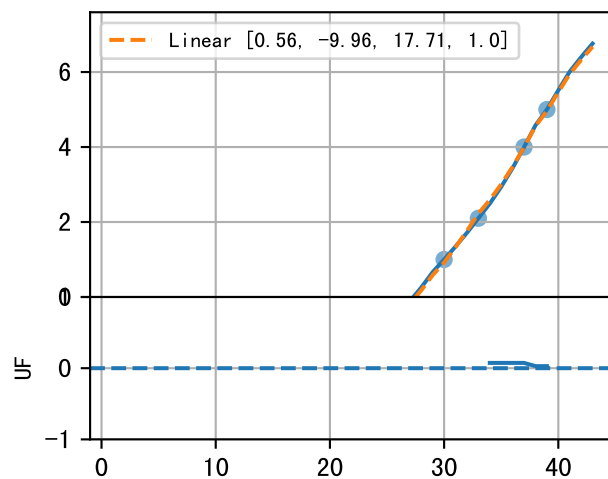
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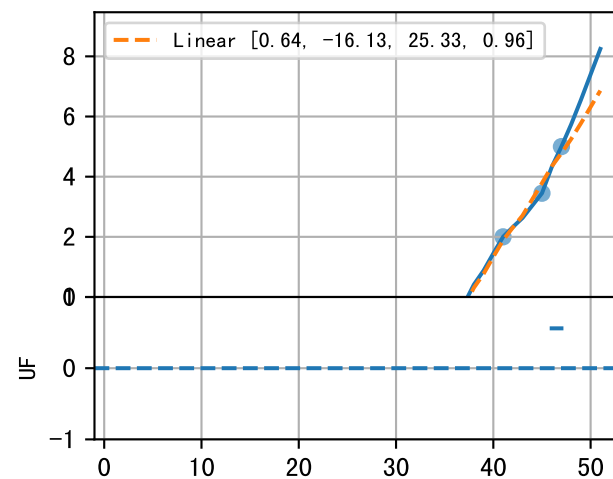
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P3-034-5T2

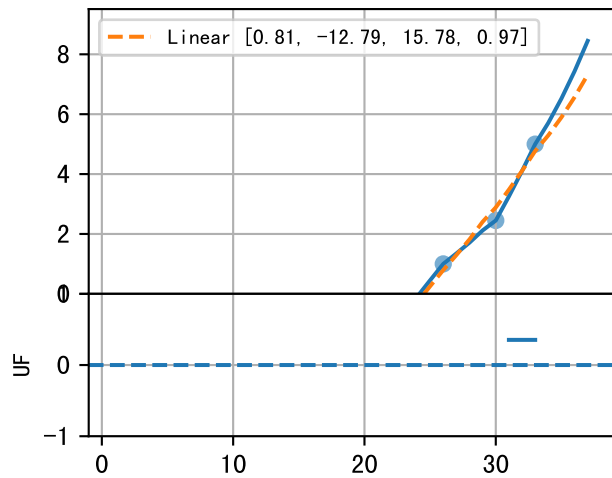


P3-034-5T3

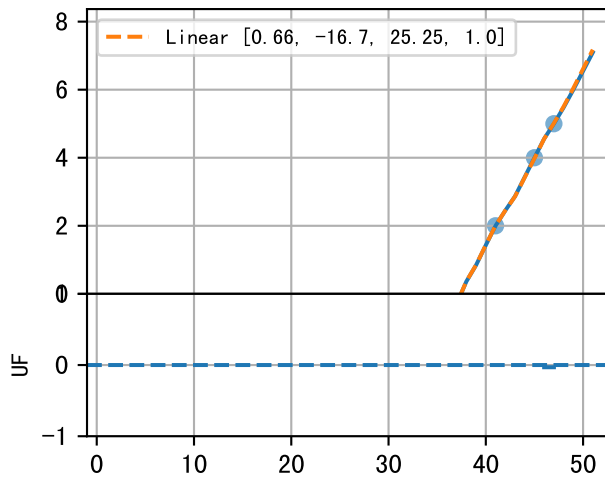


ErM

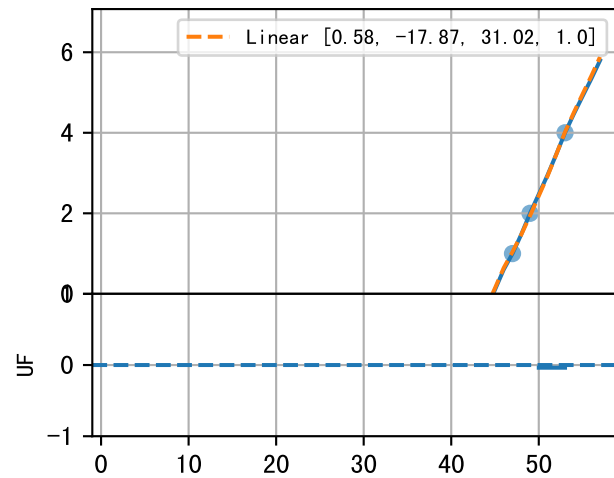
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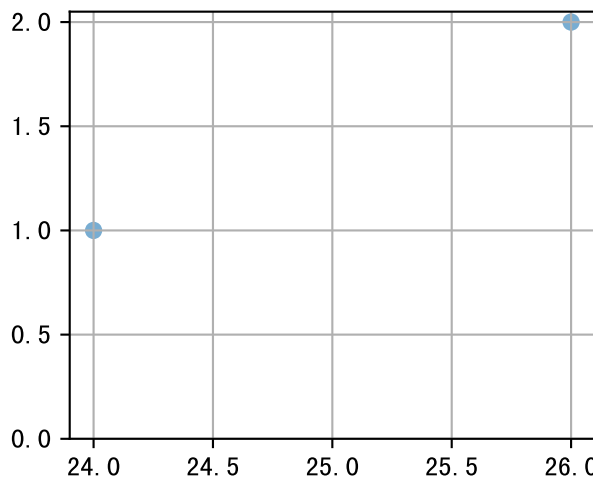
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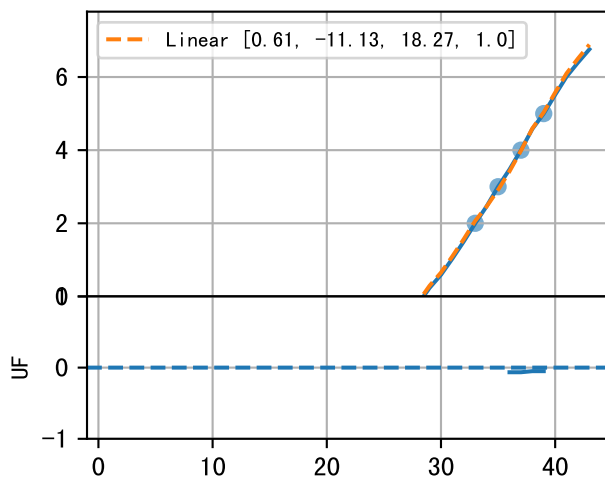
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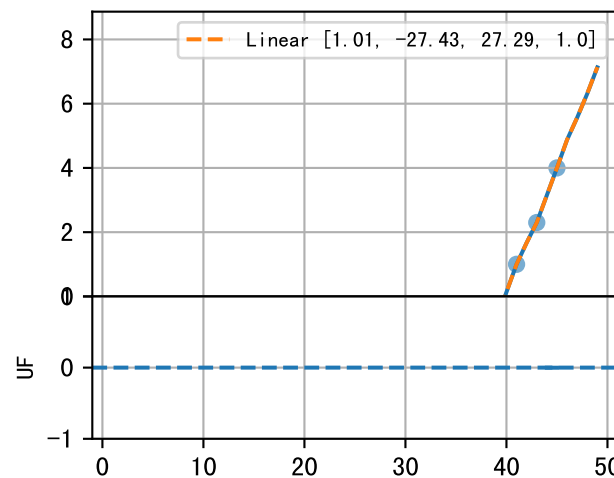
P3-054-28T1 (fit failed)



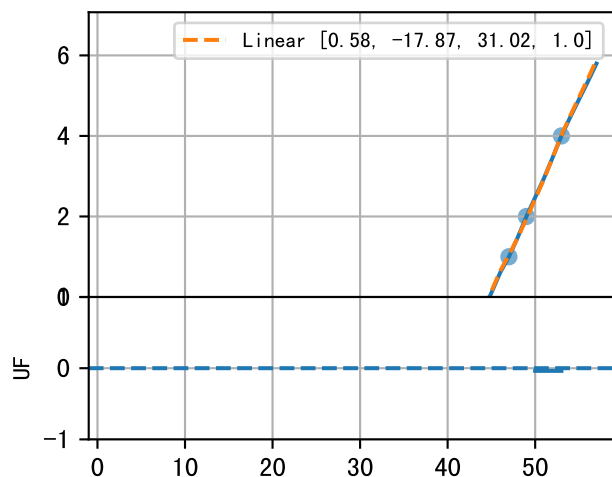
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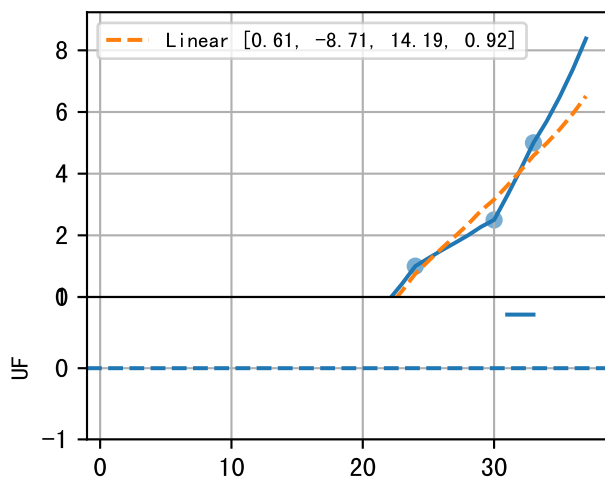
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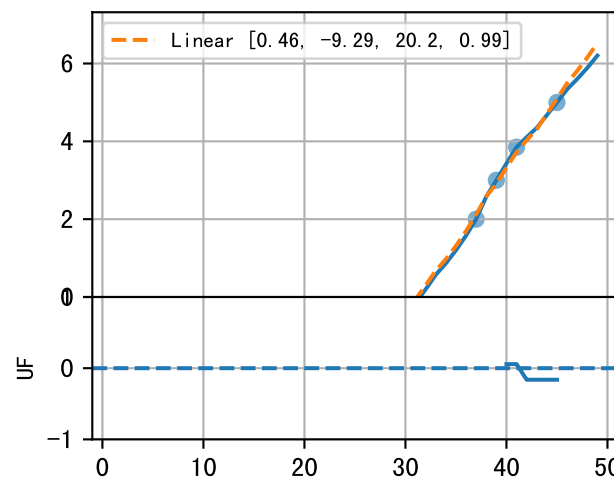
P3-054-28T4



P3-068-4T1

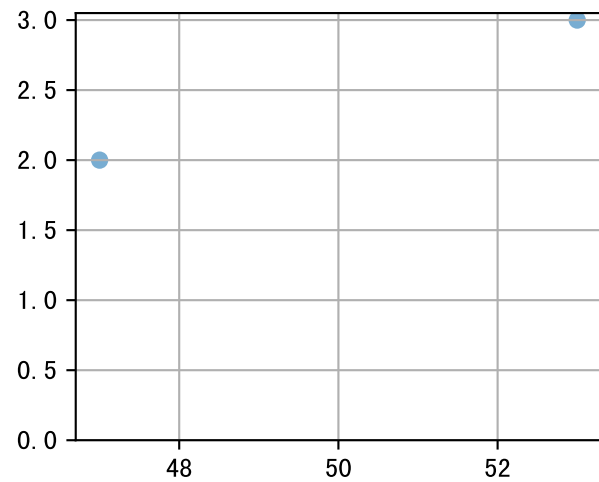


P3-068-4T2

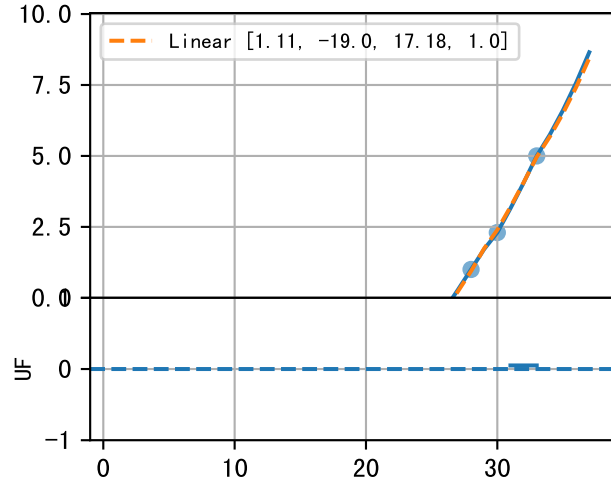


ErN

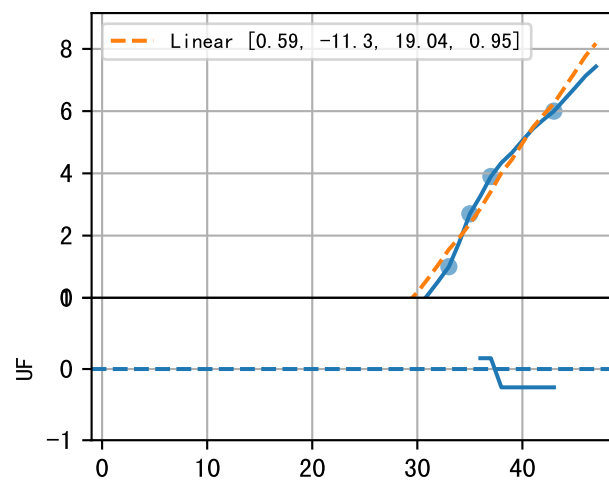
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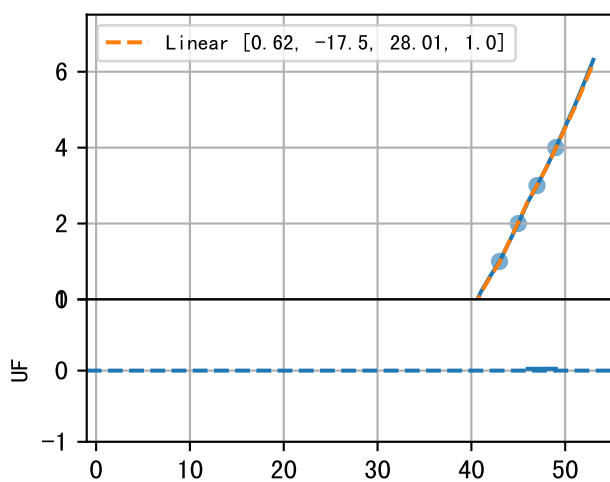
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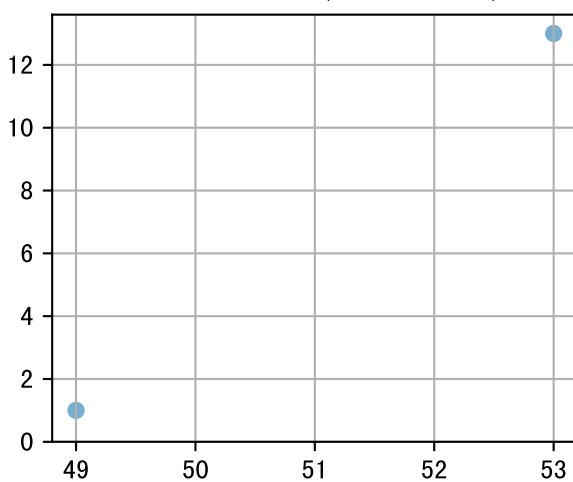
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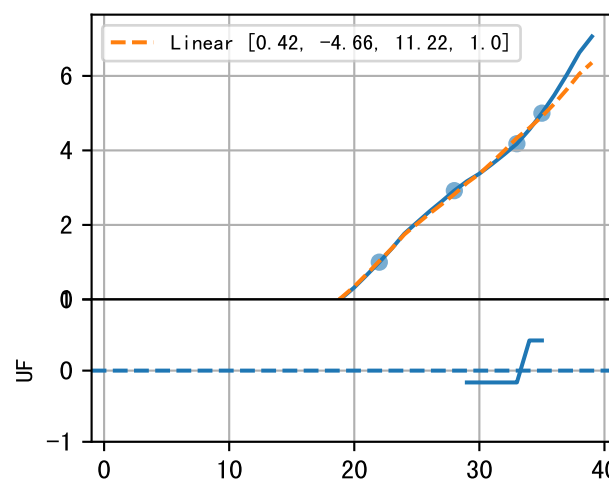
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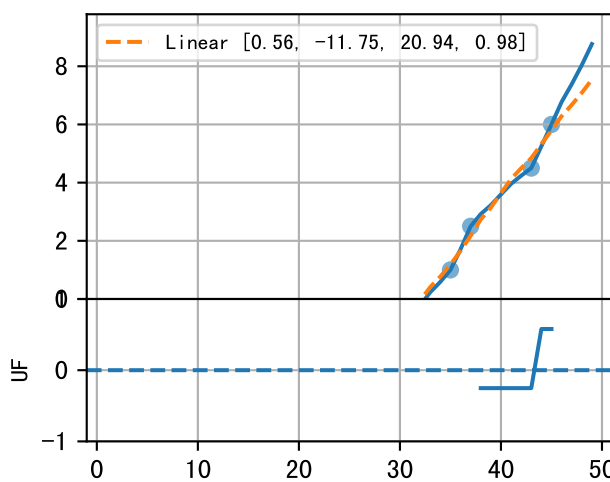
P3-075-19T4 (fit failed)



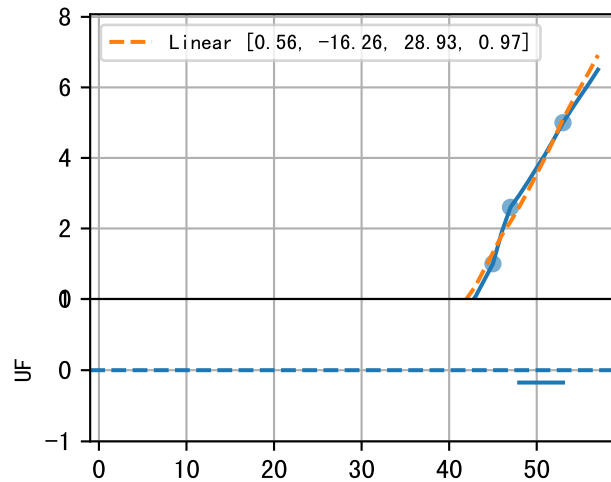
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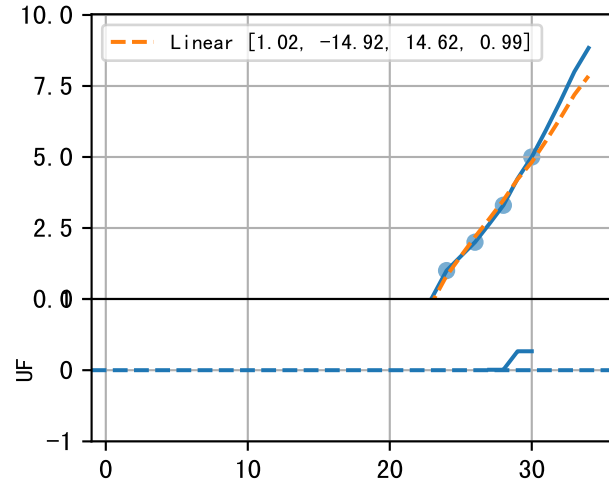
P3-084-11T2



P3-084-11T3

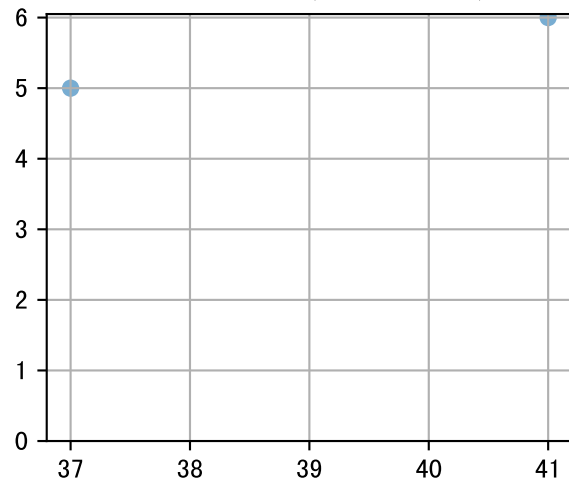


P3-099-4T1

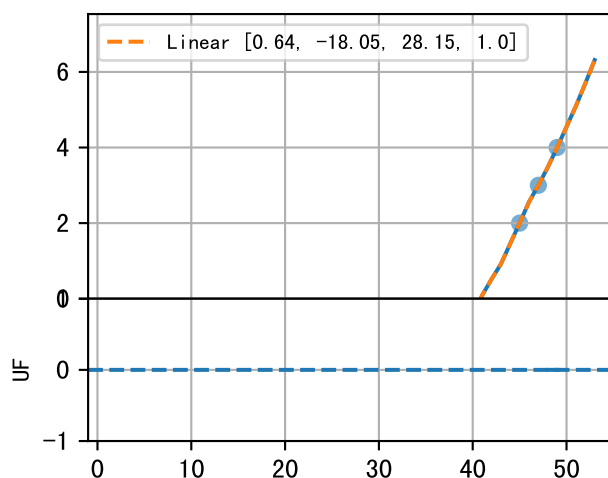


FrN

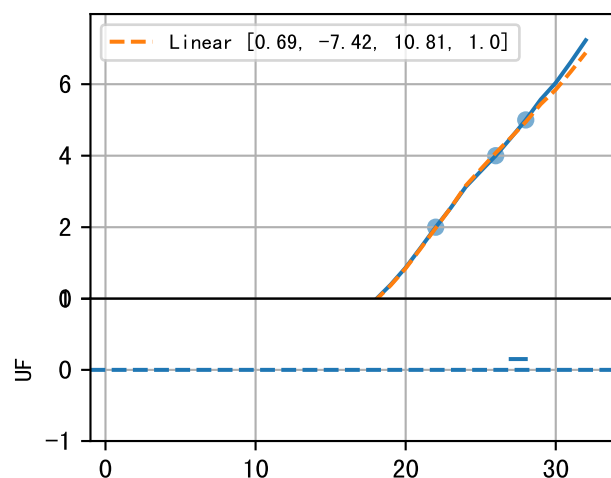
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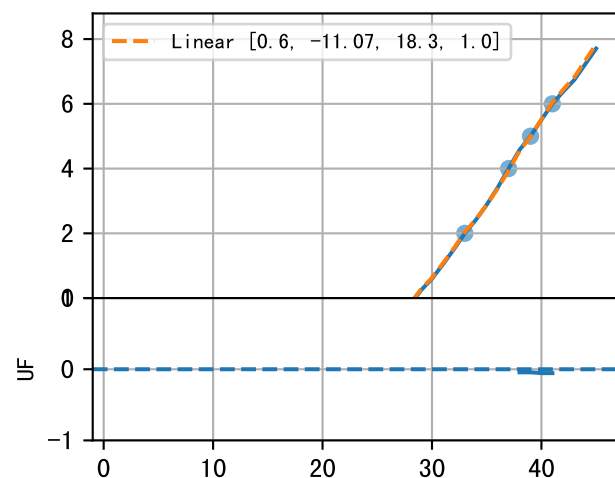
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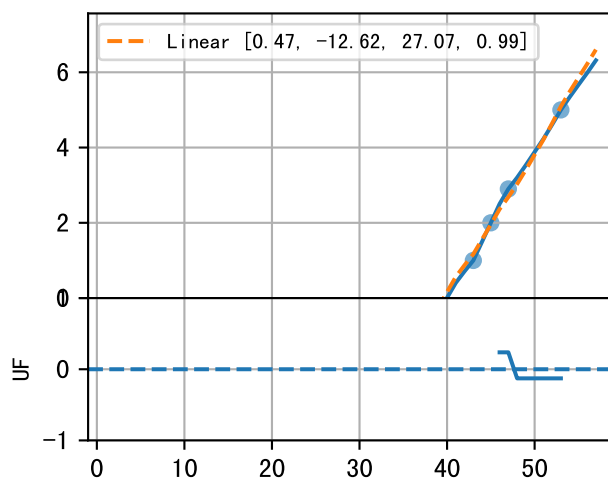
P3-110-23T1



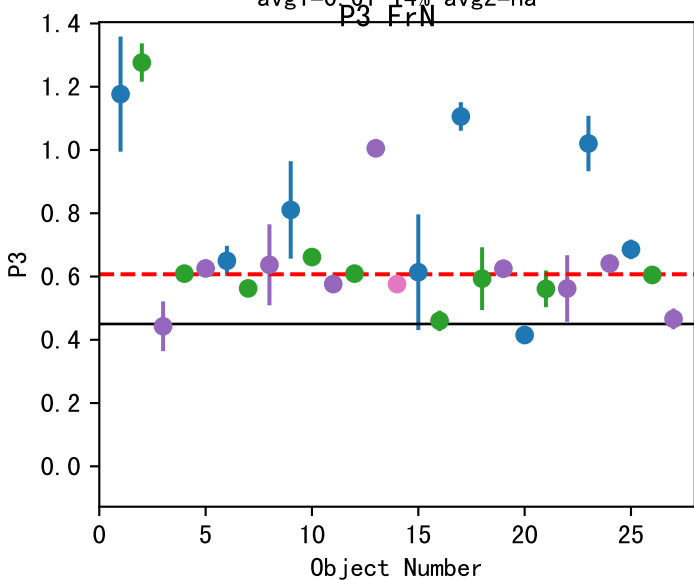
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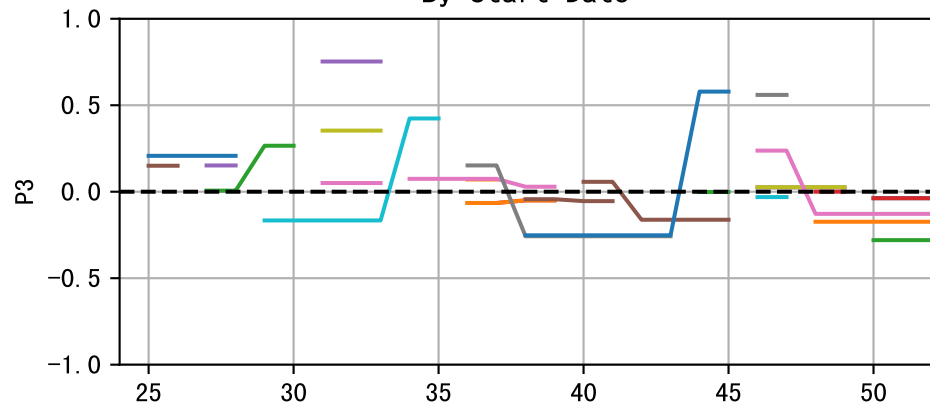
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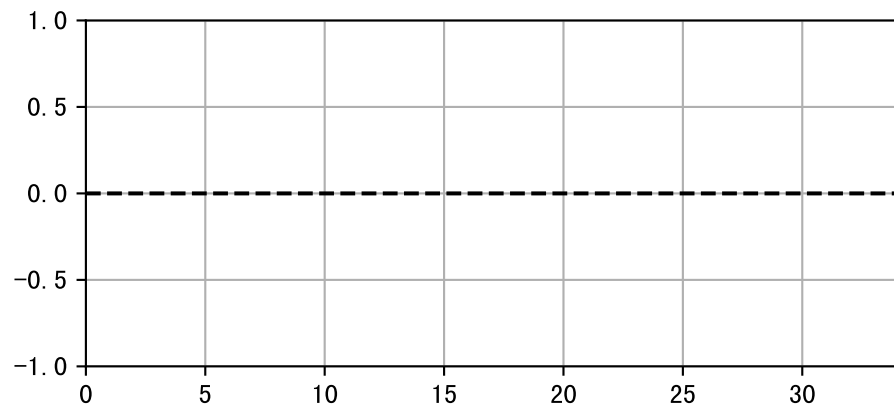
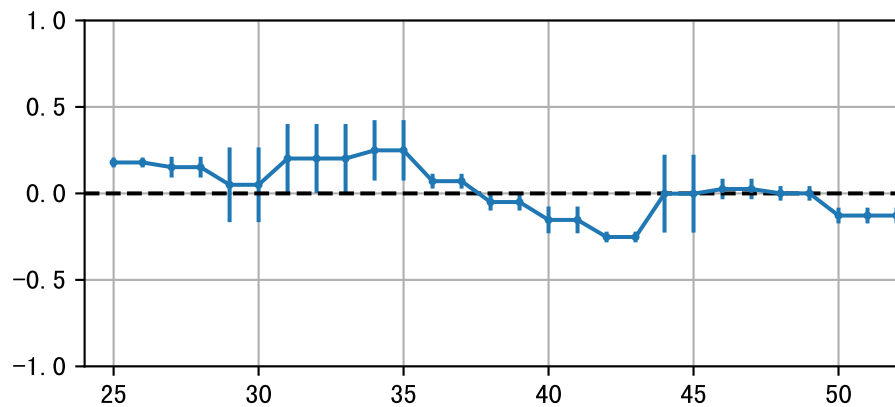
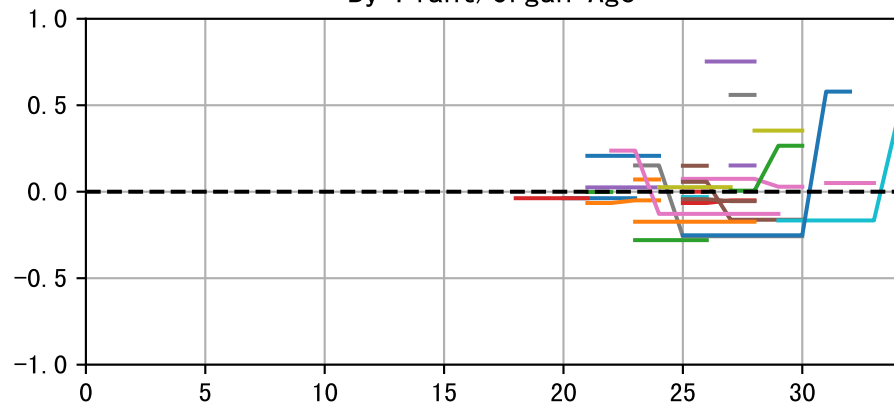
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avg1=0.61^{+14%} avg2=na



By Start Date



By Plant/Organ Age

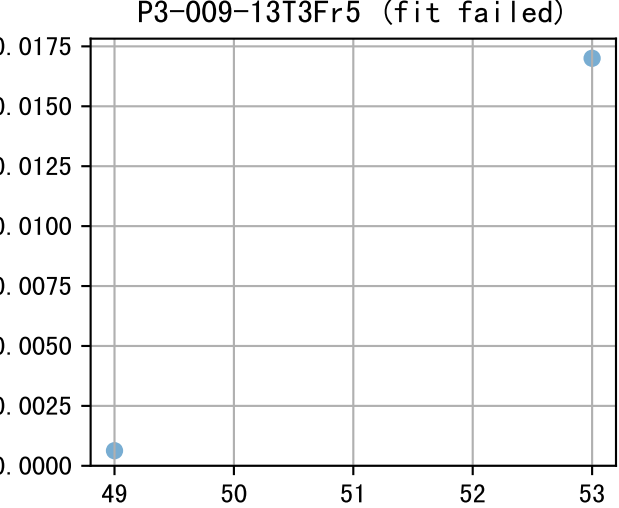
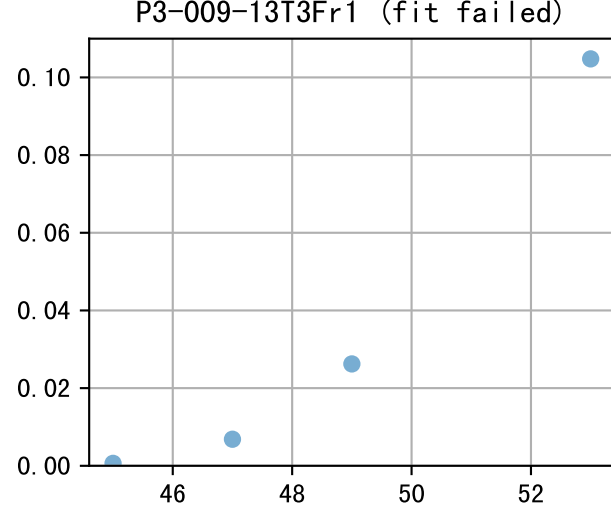
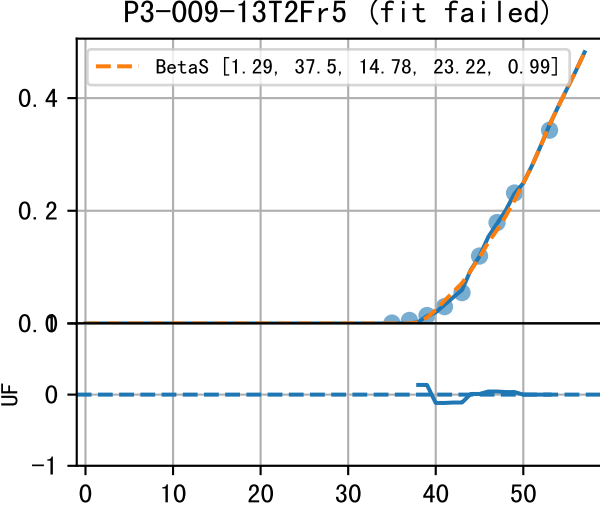
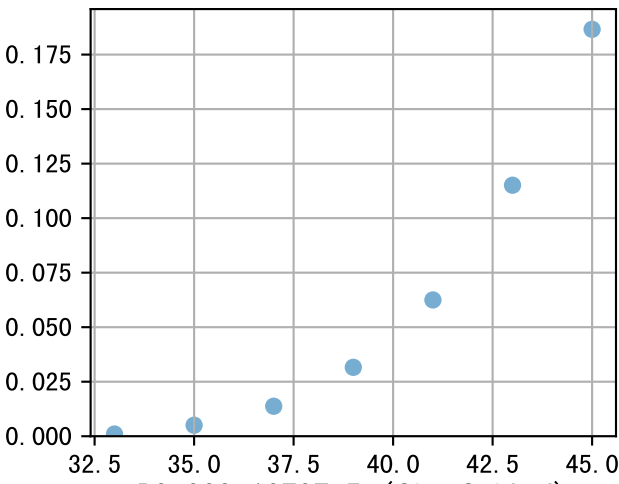
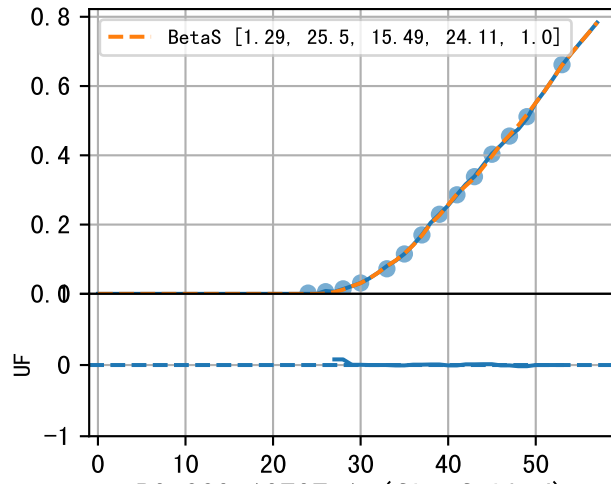
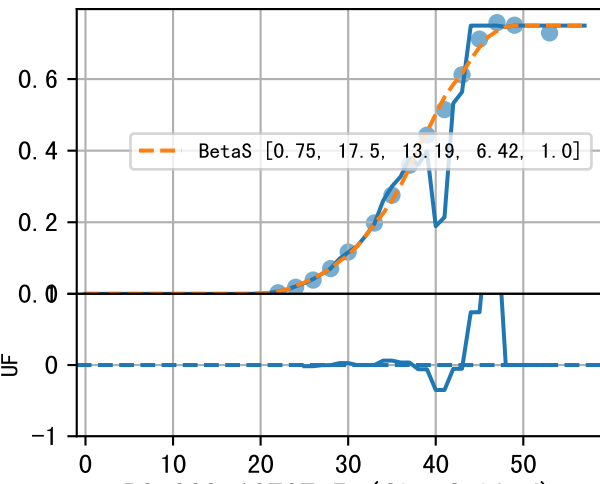


FrV

P3-009-13T1Fr1

P3-009-13T1Fr5

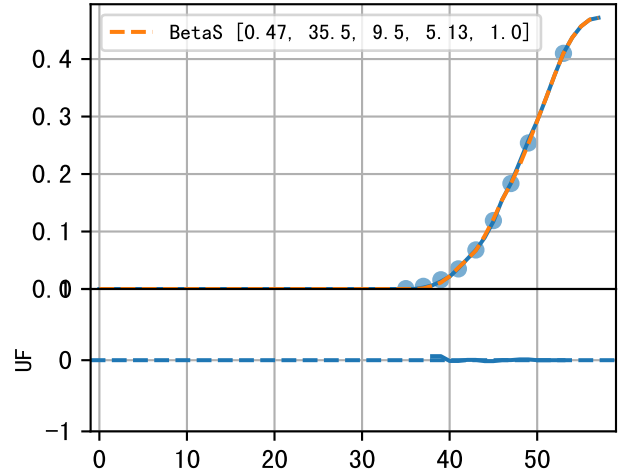
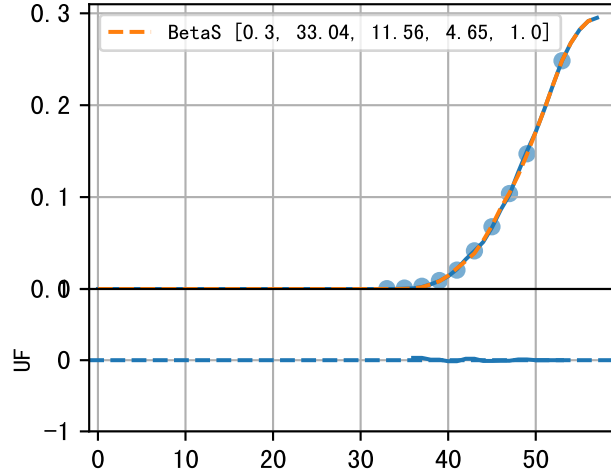
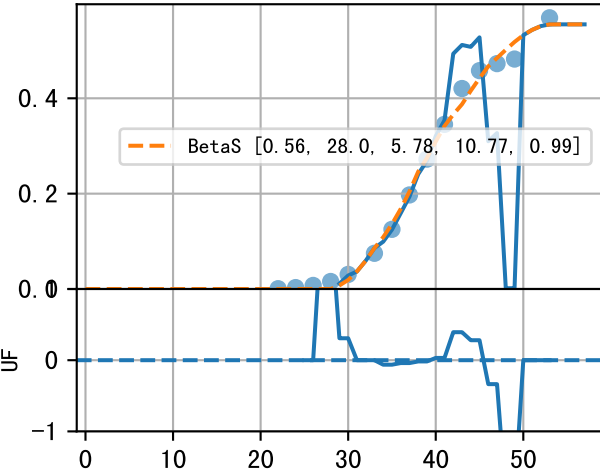
P3-009-13T2Fr1 (fit failed)



P3-021-19T1Fr1

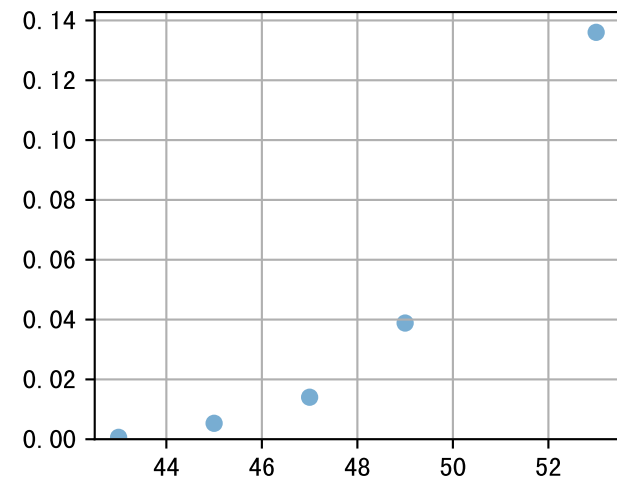
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P3-021-19T2Fr5

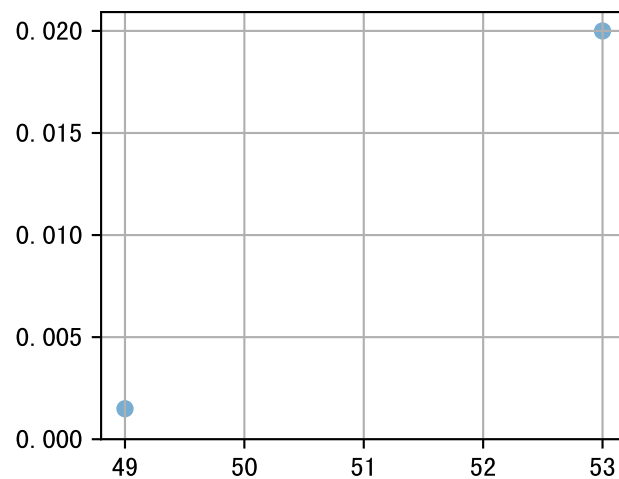


FrV

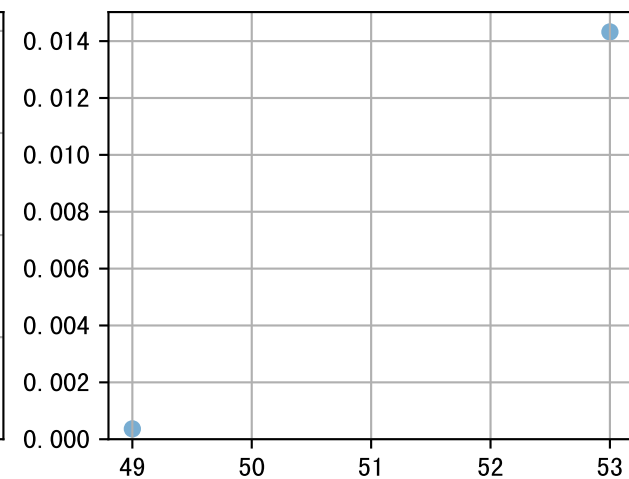
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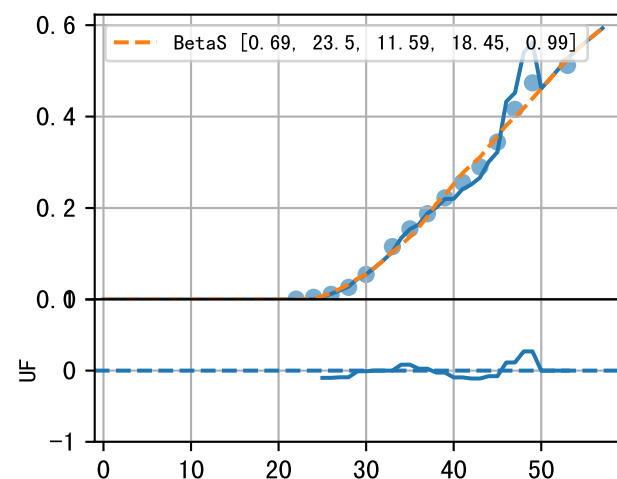
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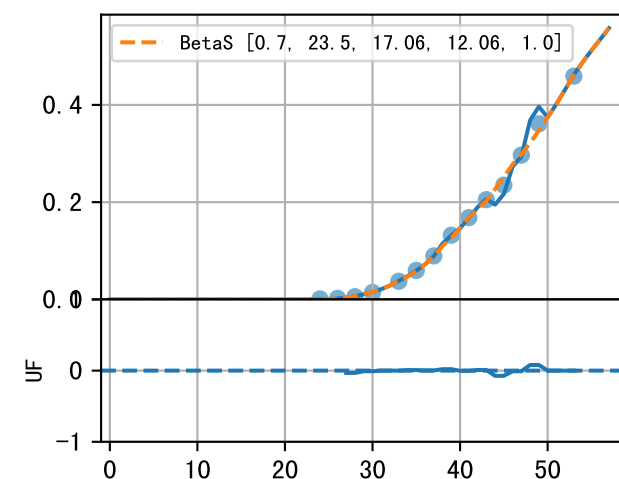
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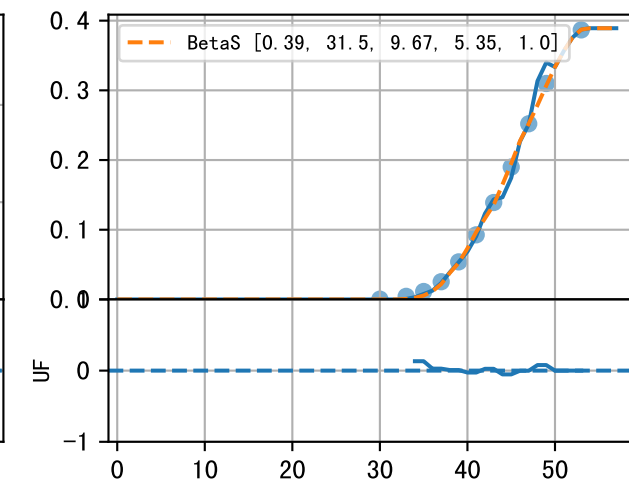
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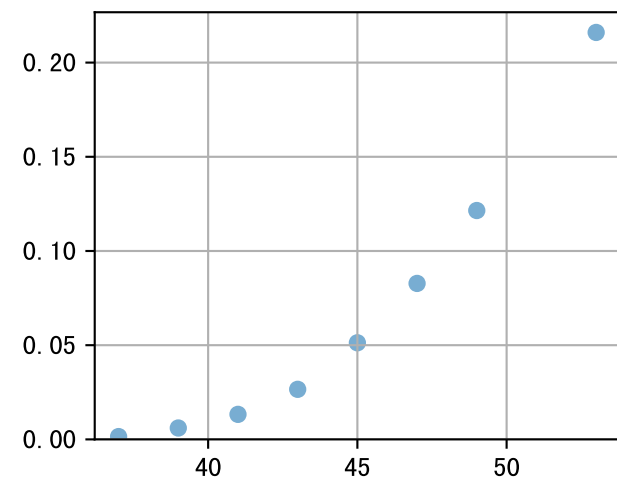
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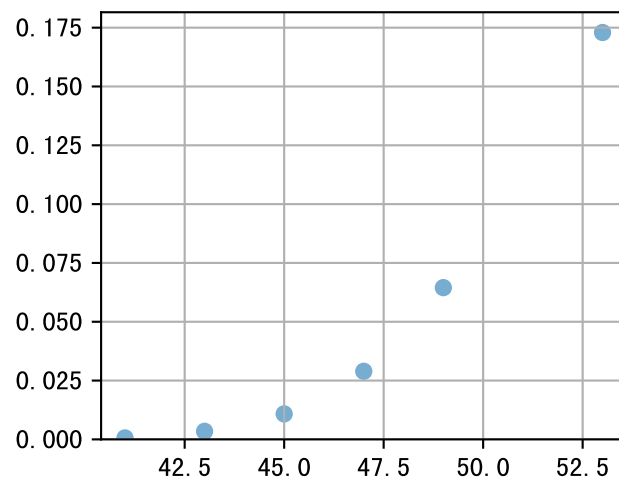
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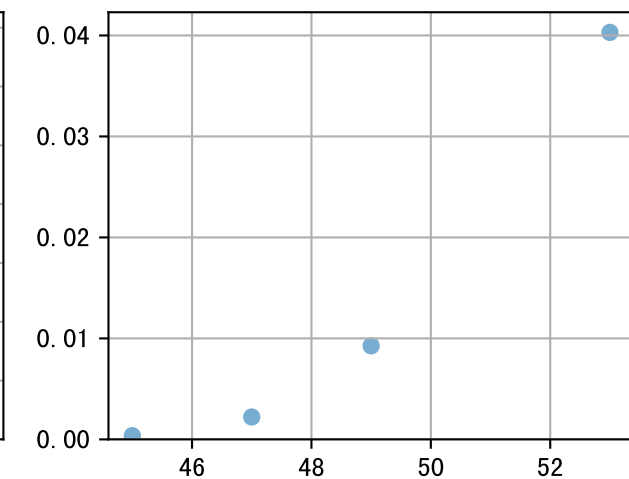
P3-034-5T2Fr5 (fit failed)



P3-034-5T3Fr1 (fit failed)

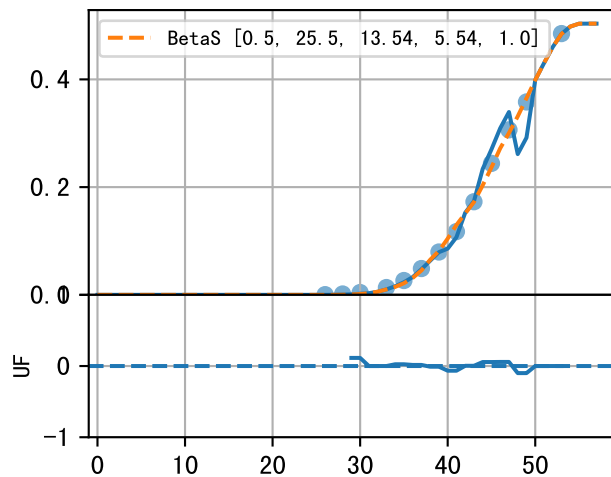


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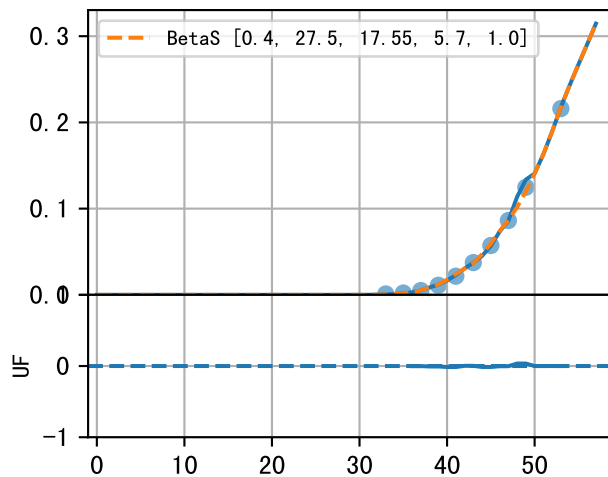


FrV

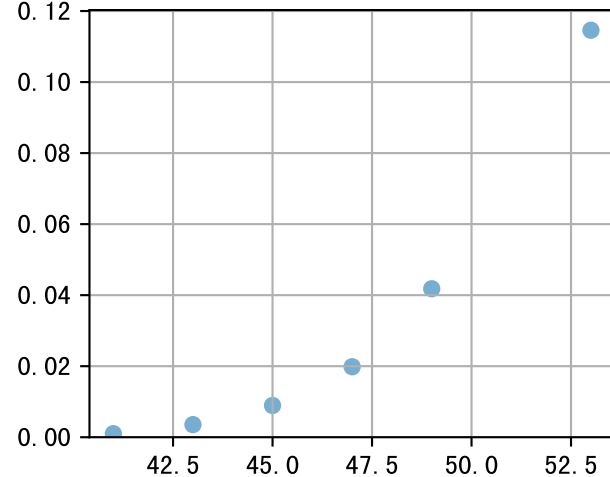
P3-045-17T1Fr1



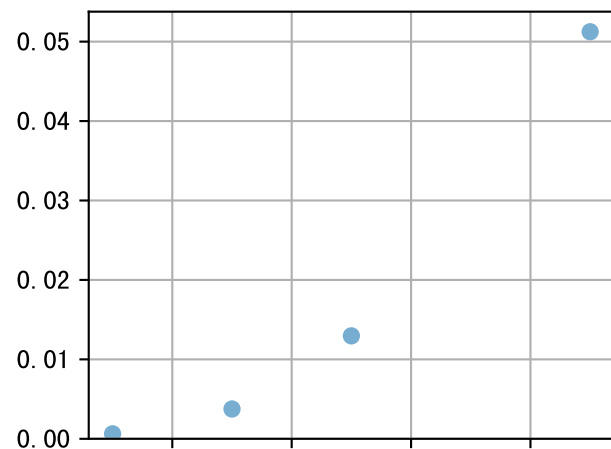
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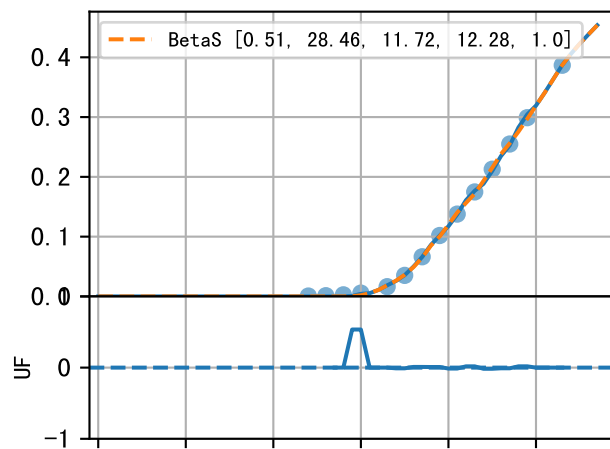
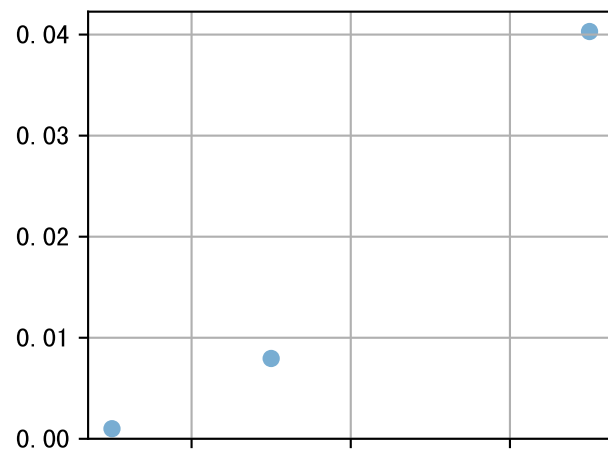
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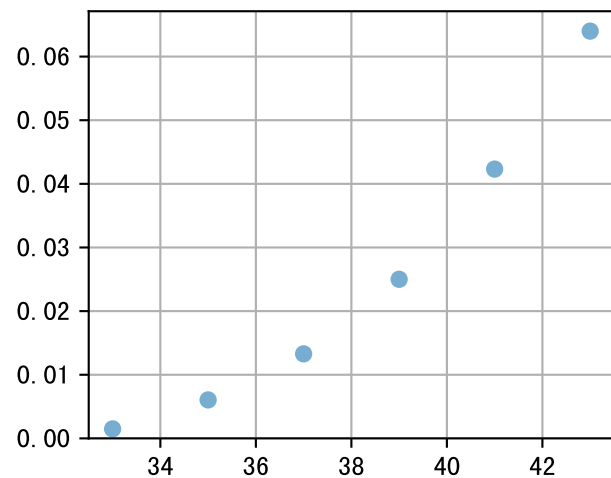
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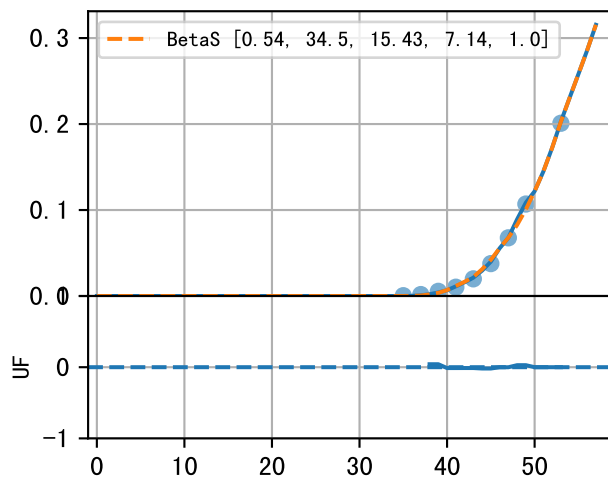
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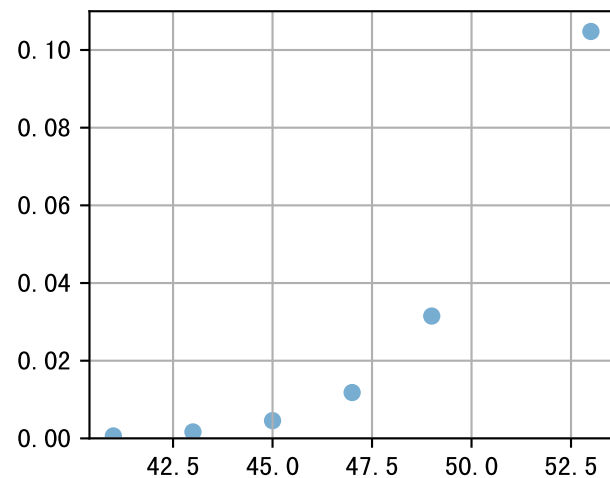
P3-054-28T2Fr1 (fit failed)



P3-054-28T2Fr5 (fit failed)

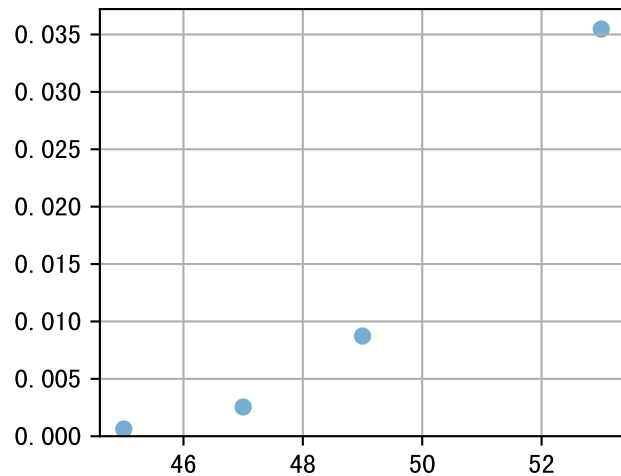


P3-054-28T3Fr1 (fit failed)

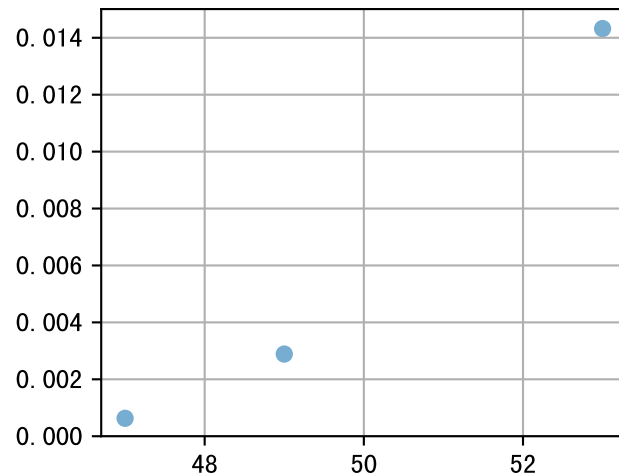


FrV

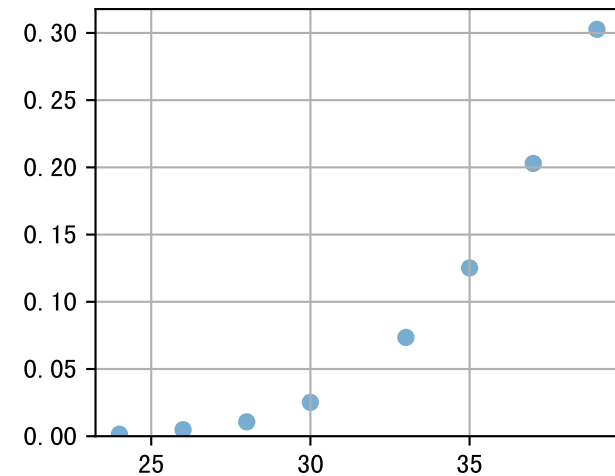
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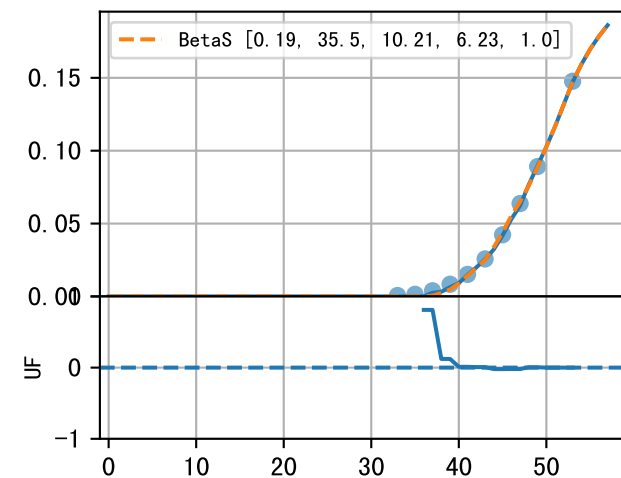
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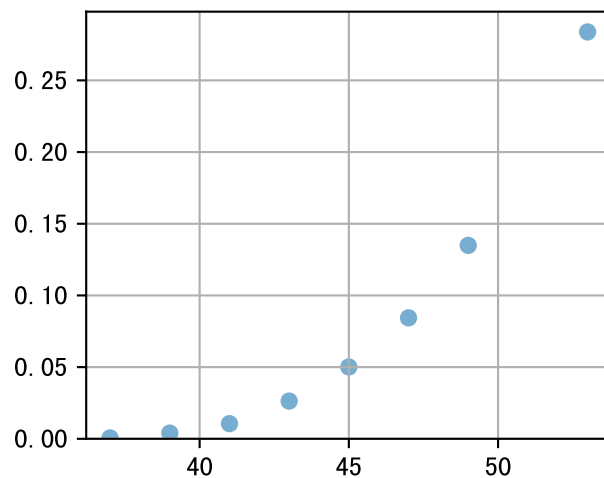
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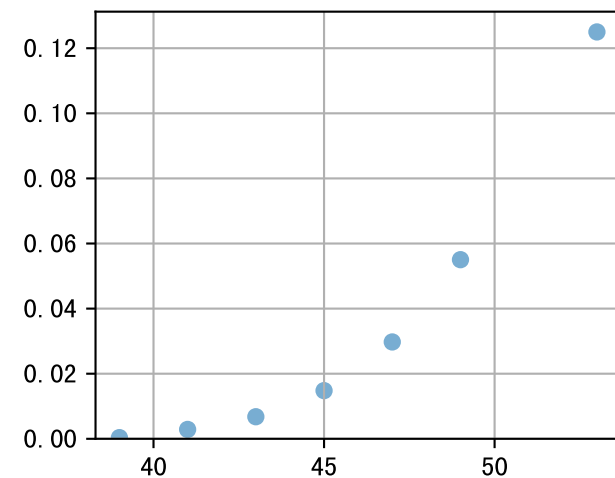
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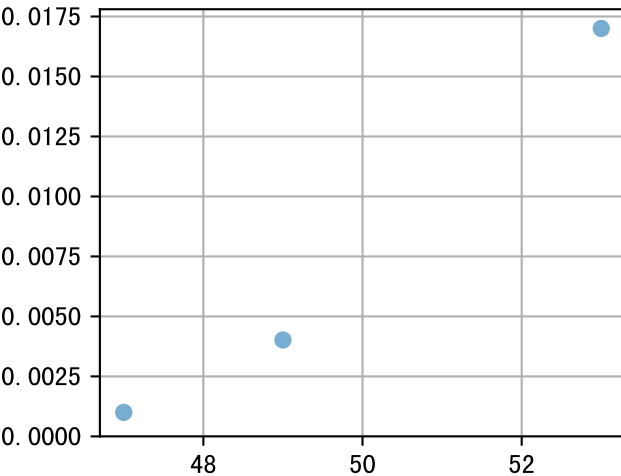
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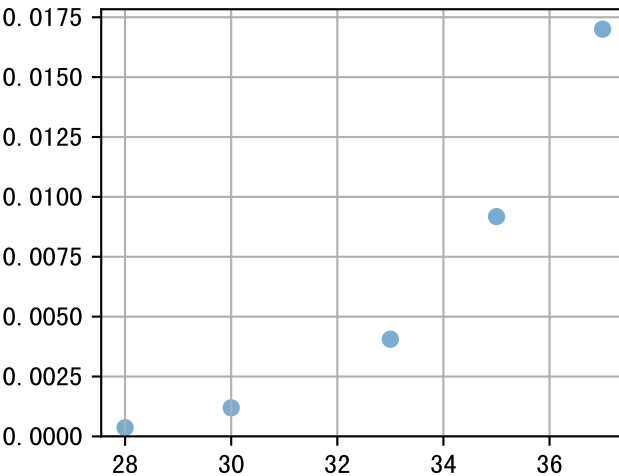
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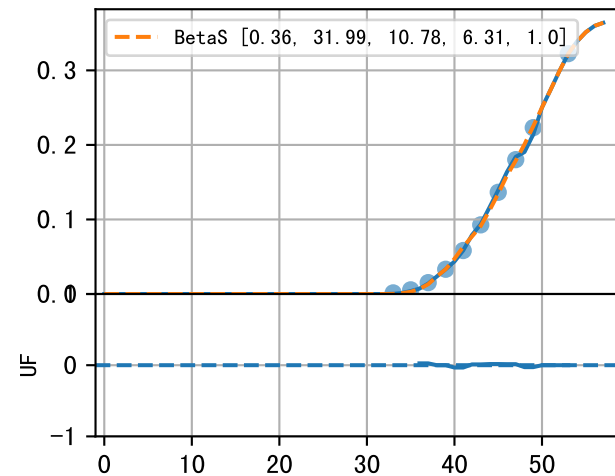
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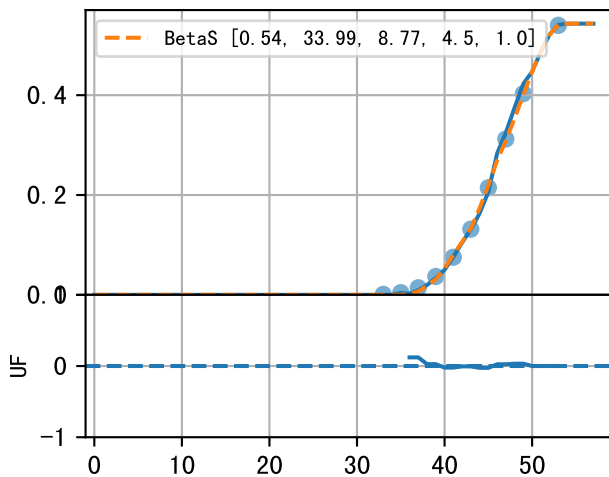
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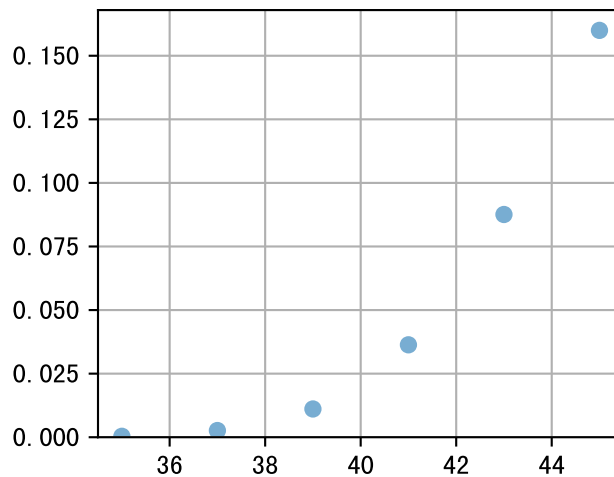
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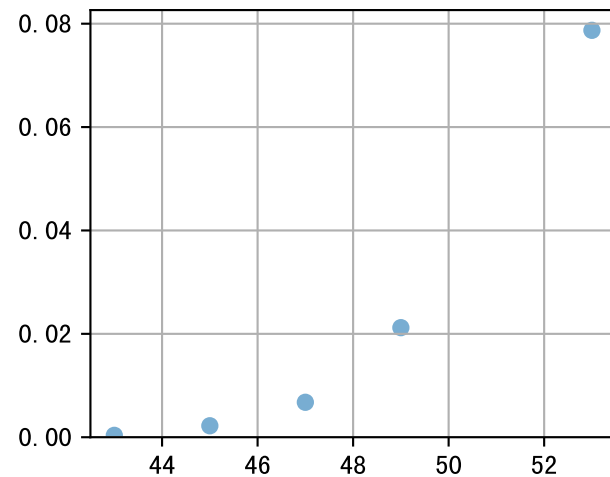
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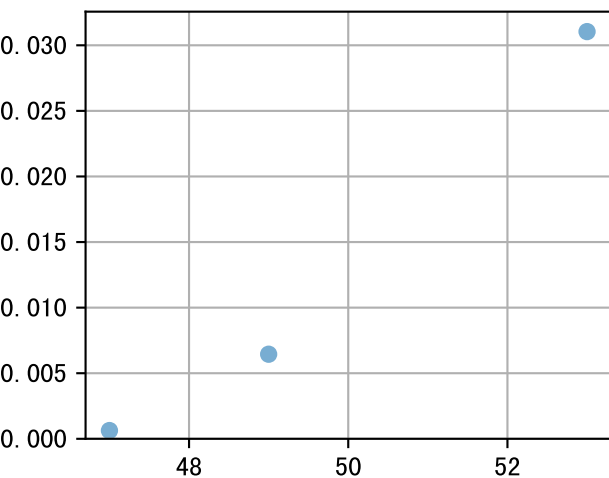
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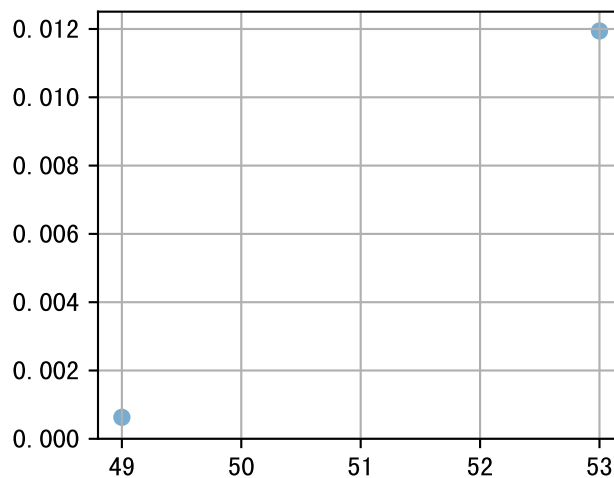
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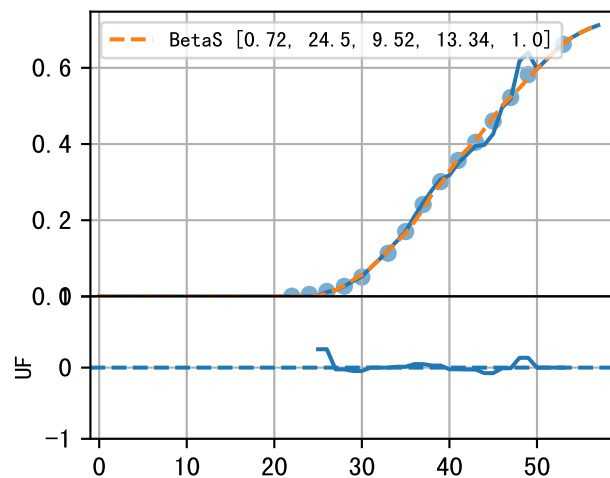
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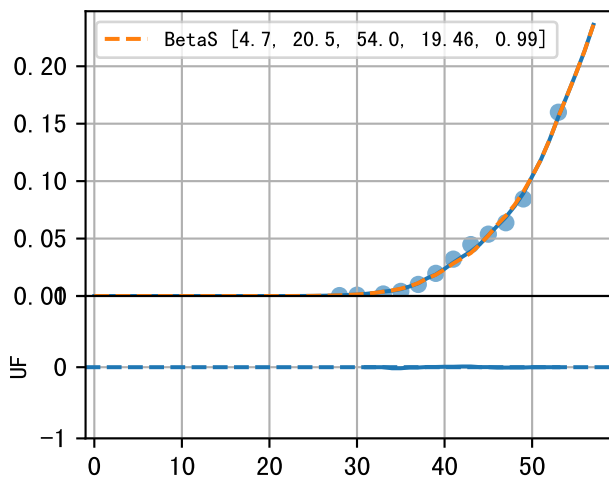
P3-075-19T4Fr1 (fit failed)



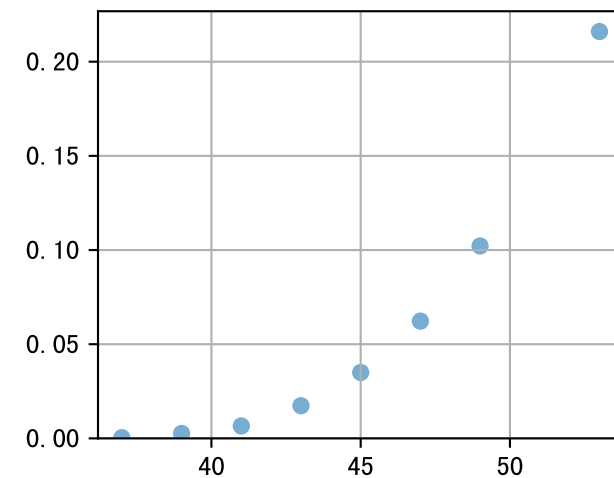
P3-084-11T1Fr1



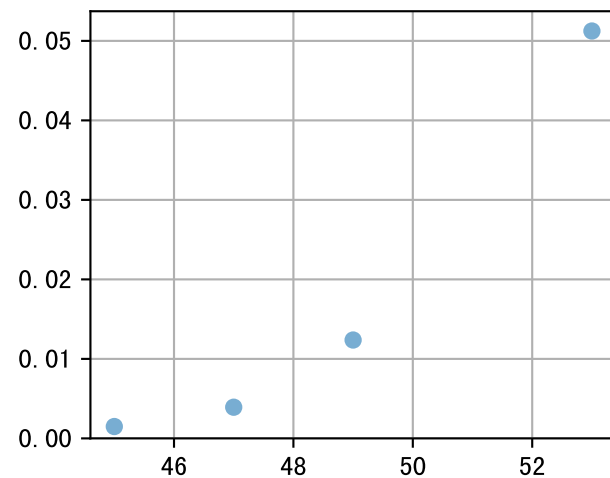
P3-084-11T1Fr5 (fit failed)



P3-084-11T2Fr5 (fit failed)

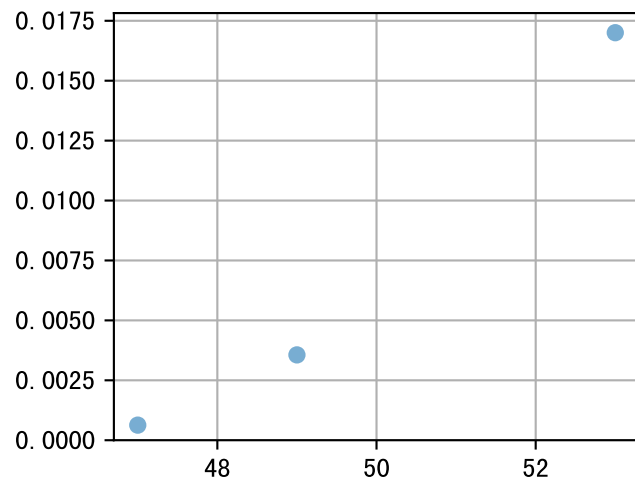


P3-084-11T3Fr1 (fit failed)

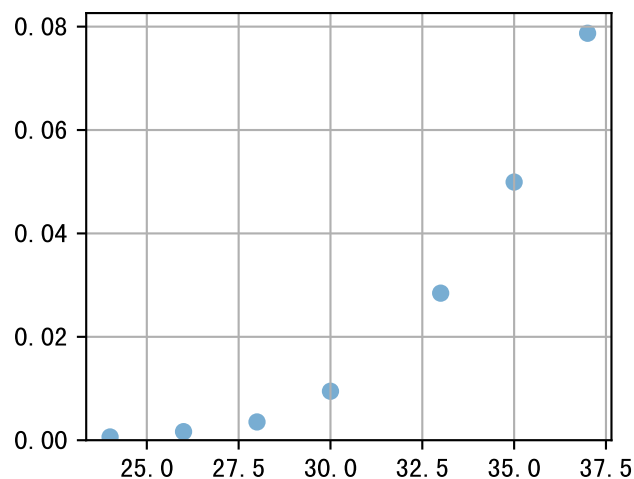


ErV

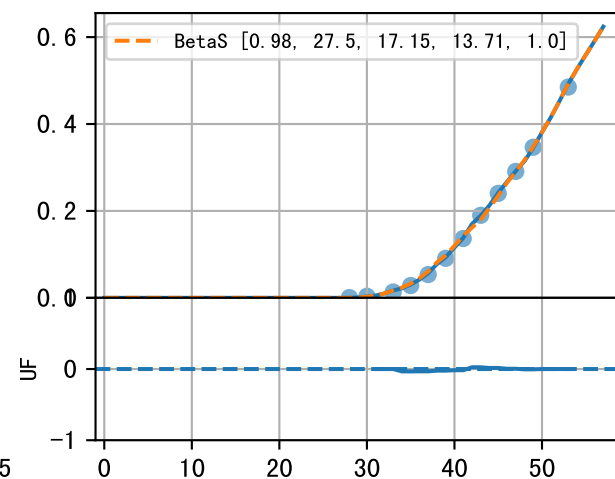
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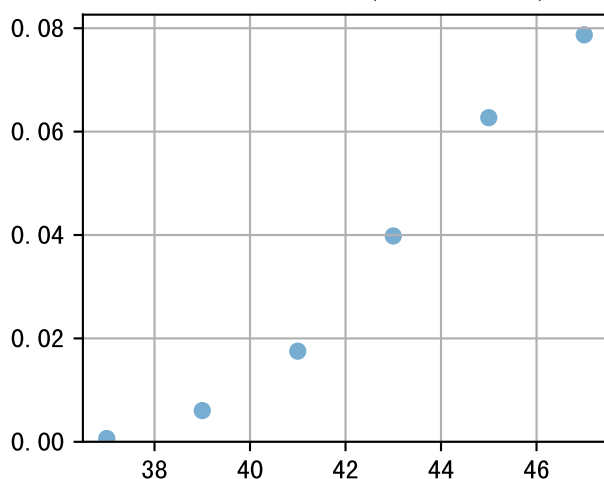
P3-099-4T1Fr1 (fit failed)



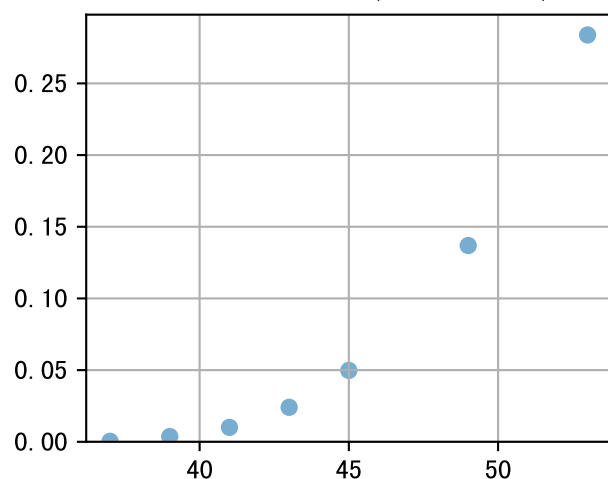
P3-099-4T1Fr5



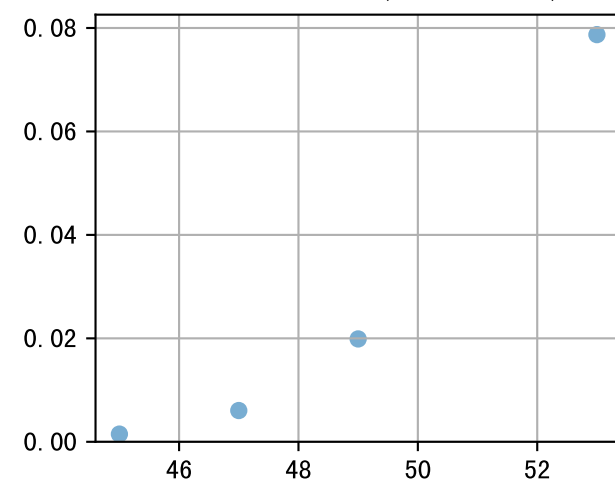
P3-099-4T2Fr1 (fit failed)



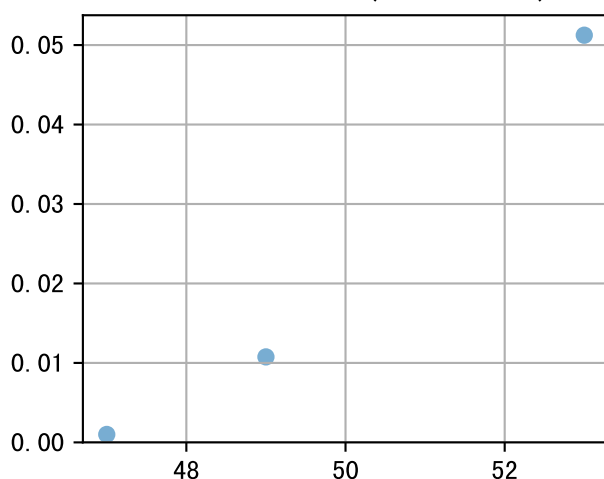
P3-099-4T2Fr5 (fit failed)



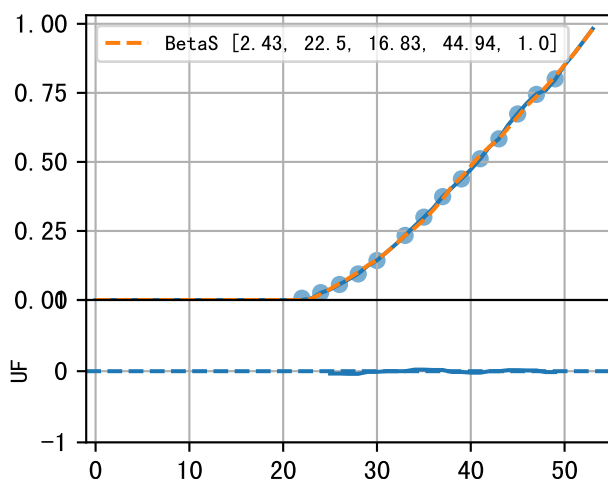
P3-099-4T3Fr1 (fit failed)



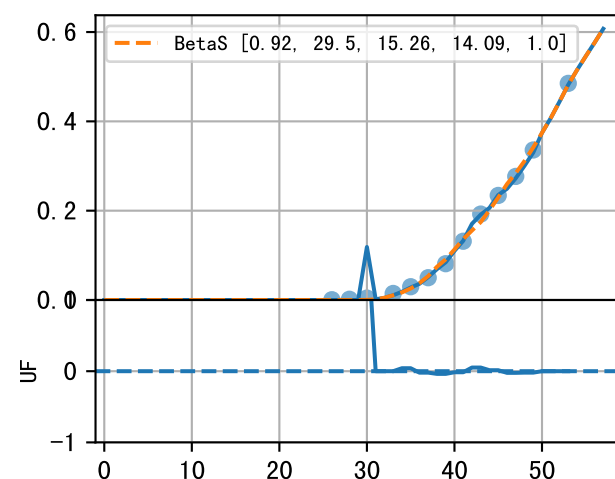
P3-099-4T3Fr5 (fit failed)



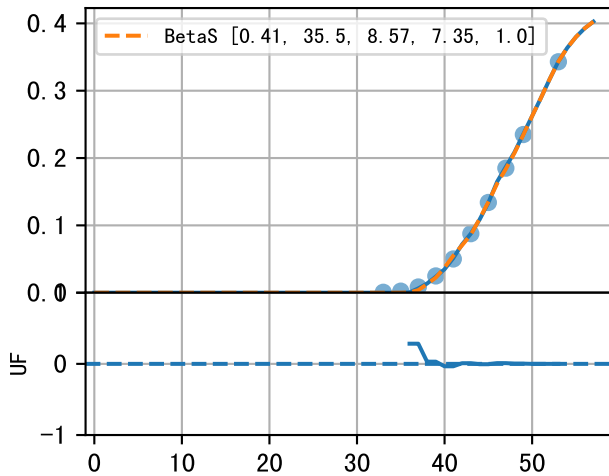
P3-110-23T1Fr1



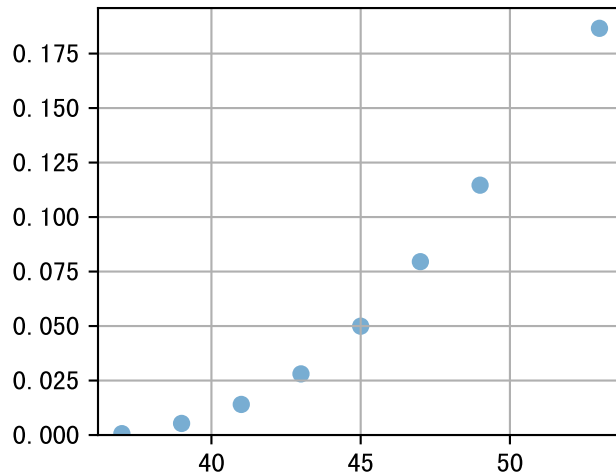
P3-110-23T1Fr5



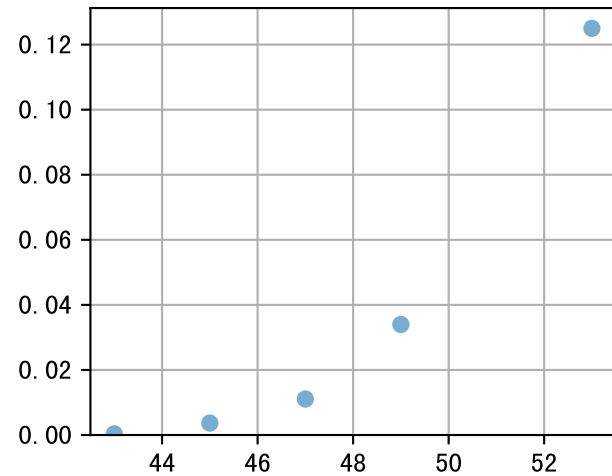
P3-110-23T2Fr1



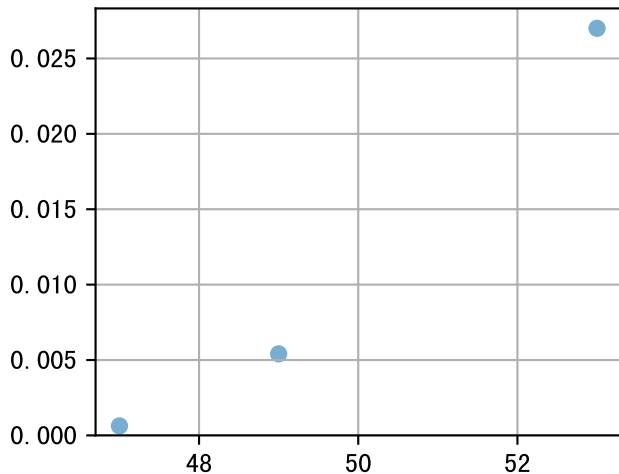
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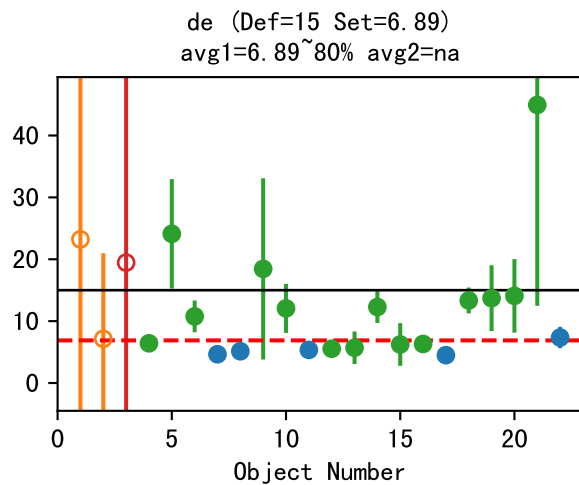
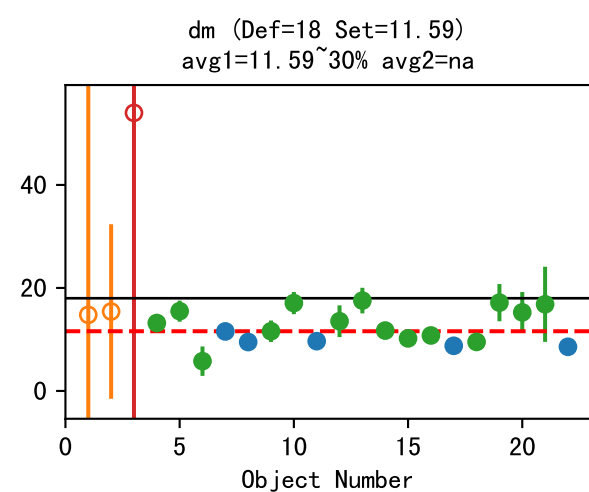
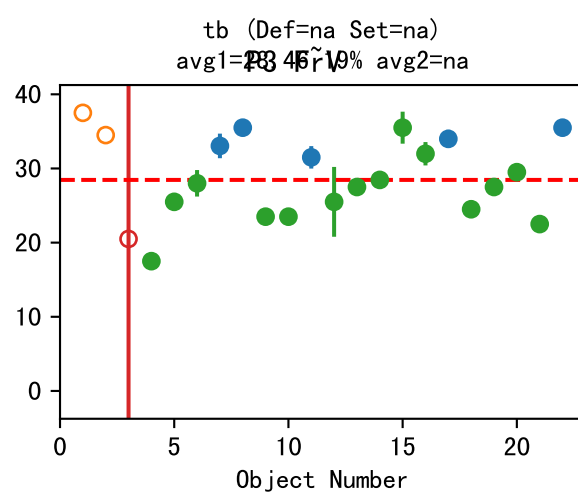
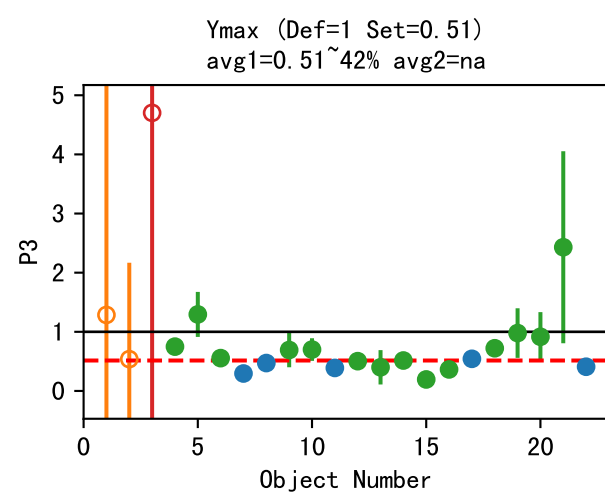


P3-110-23T3Fr1 (fit failed)

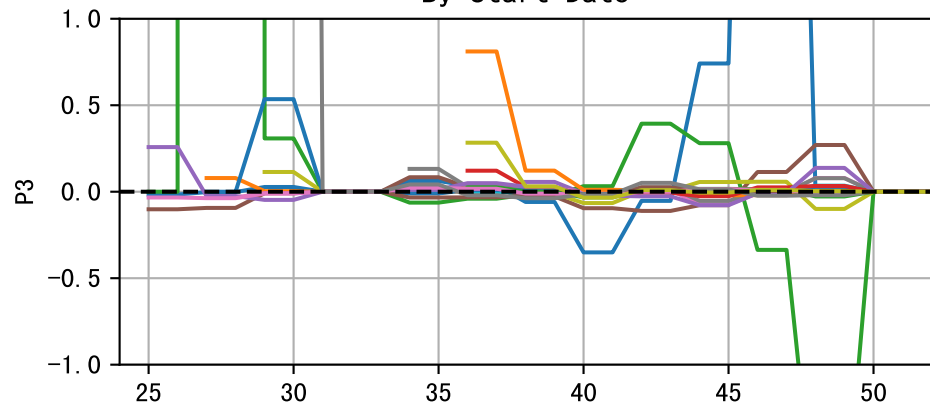


P3-110-23T3Fr5 (fit failed)

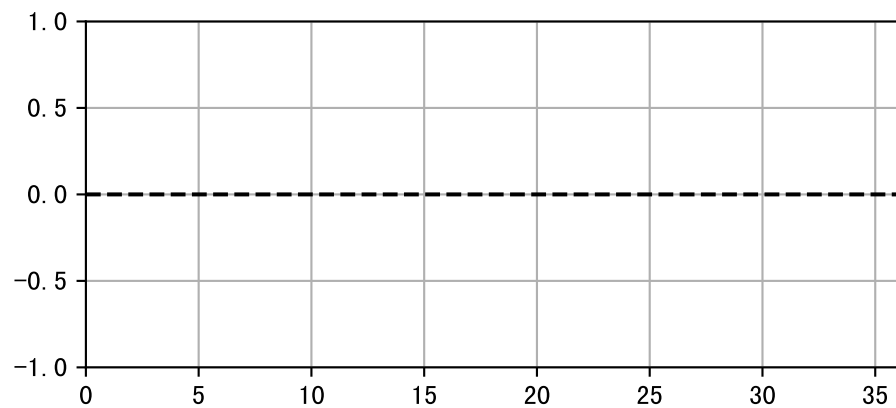
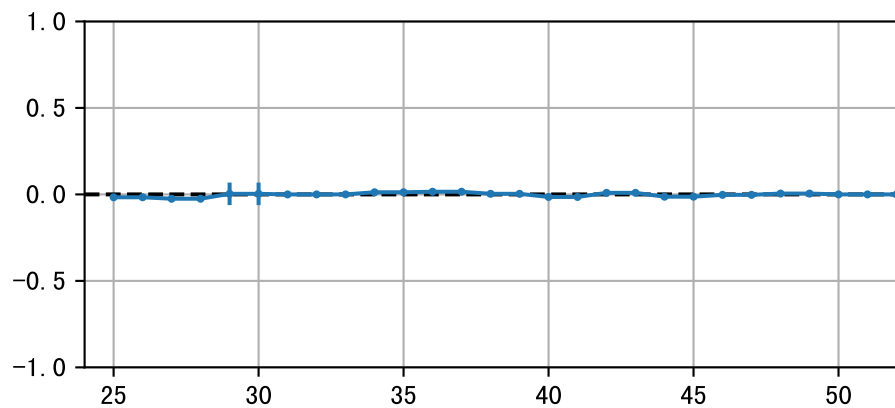
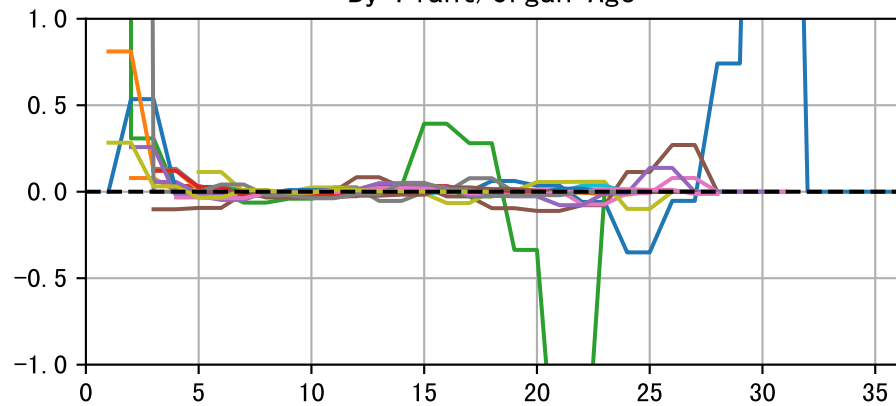




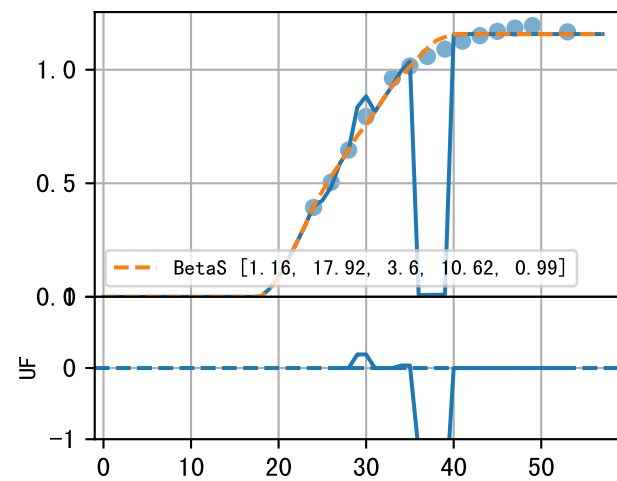
By Start Date



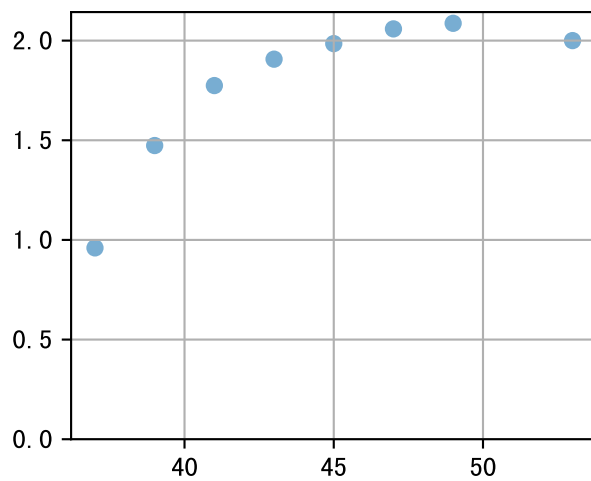
By Plant/Organ Age



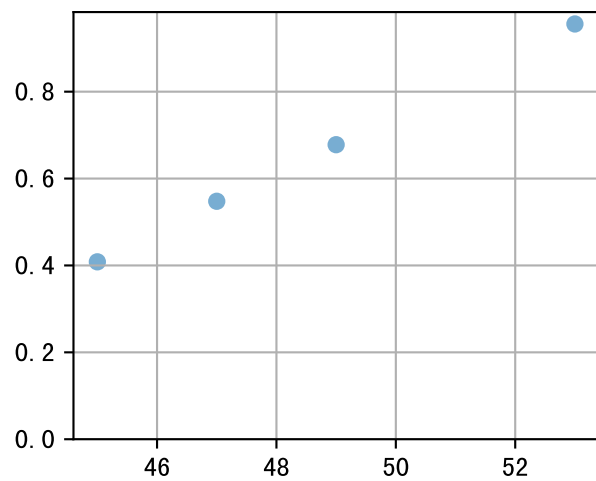
P3-009-13L10



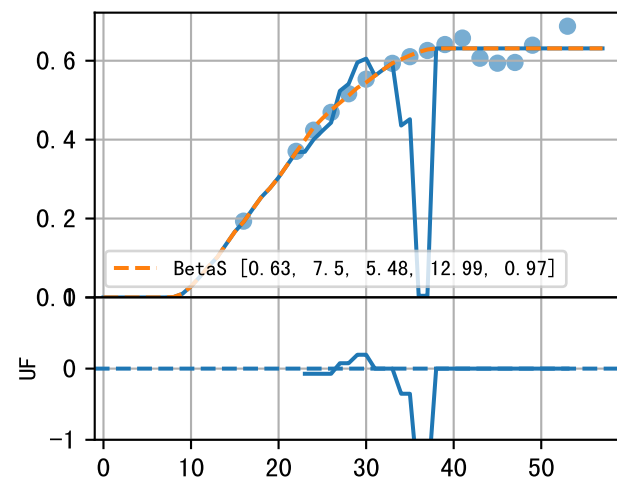
P3-009-13L15 (fit failed)



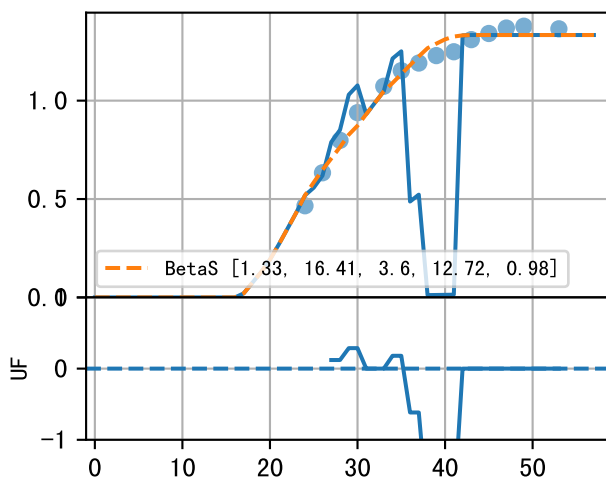
P3-009-13L18 (fit failed)



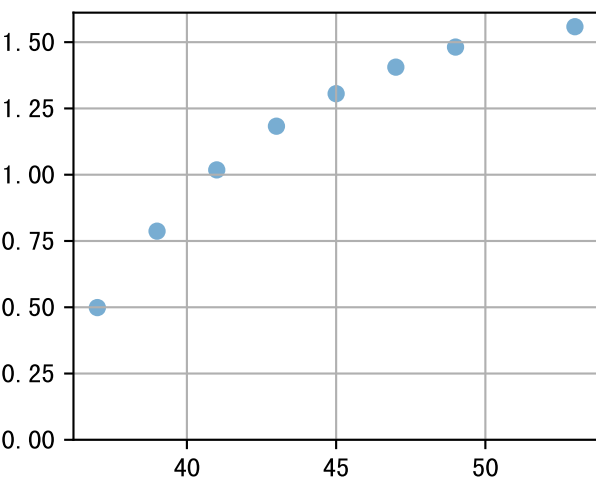
P3-009-13L7 (fit failed)



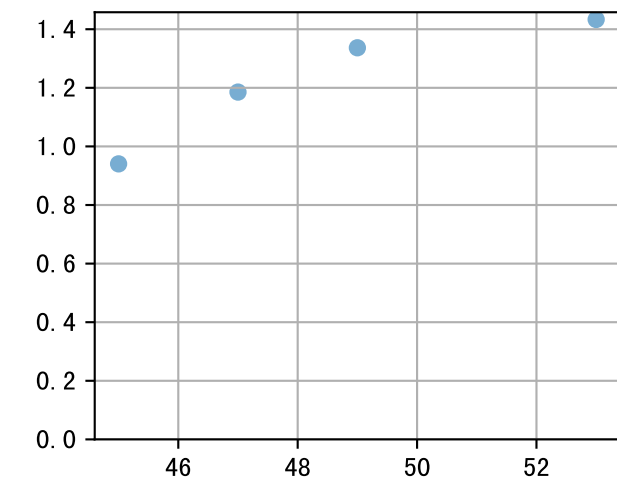
P3-021-19L10



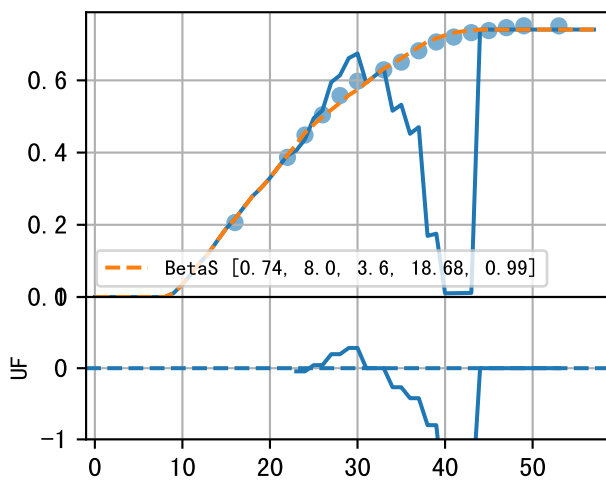
P3-021-19L15 (fit failed)



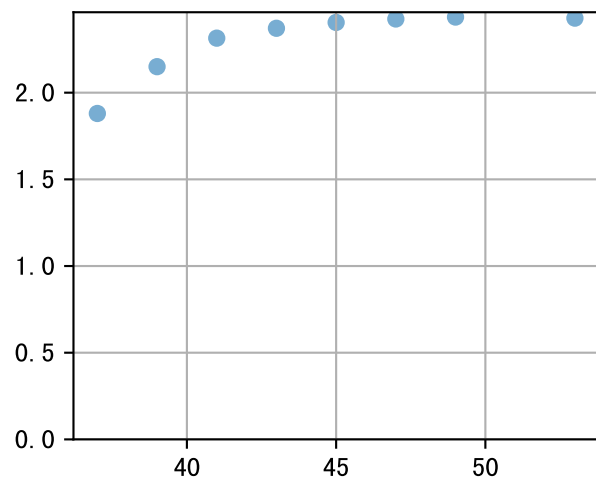
P3-021-19L18 (fit failed)



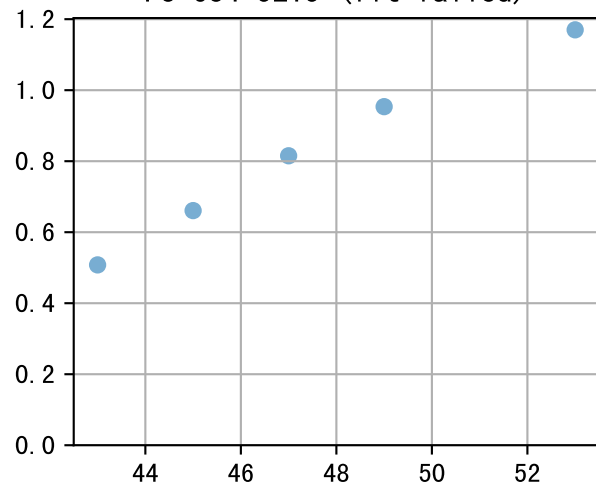
P3-021-19L6



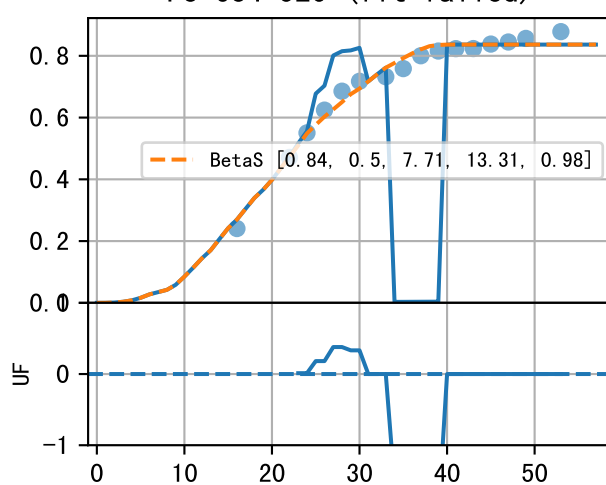
P3-034-5L12 (fit failed)



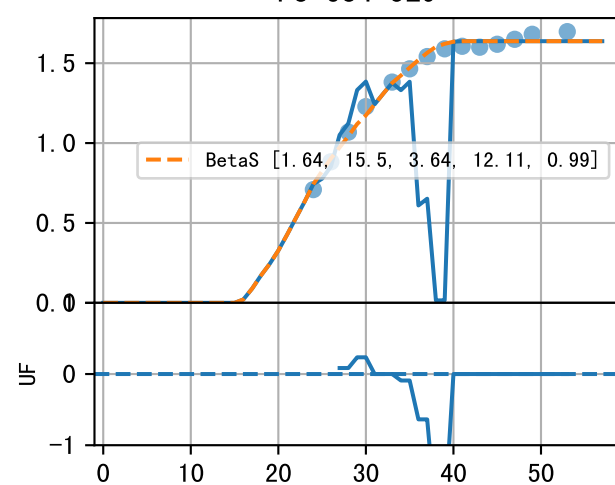
P3-034-5L15 (fit failed)



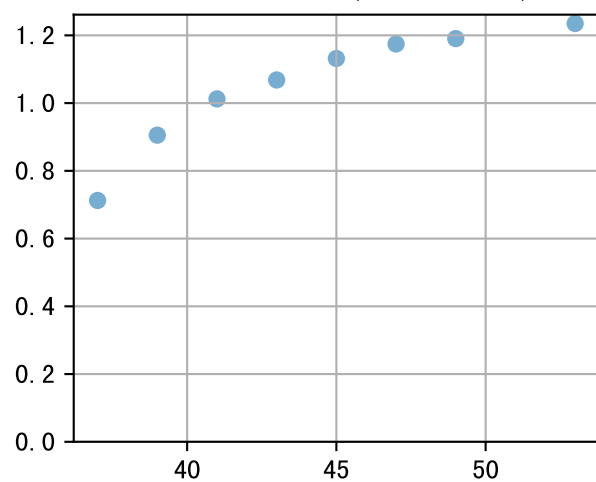
P3-034-5L6 (fit failed)



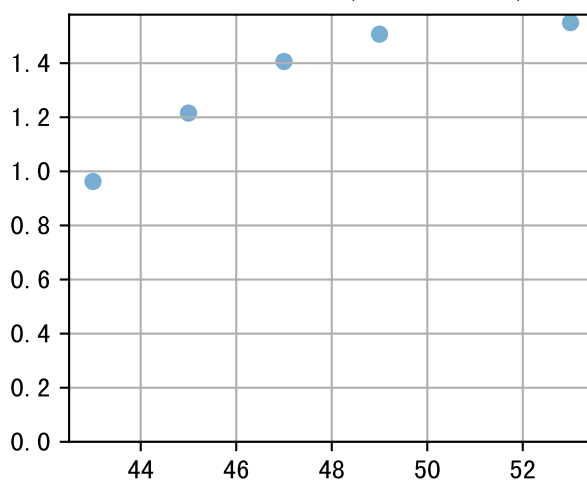
P3-034-5L9



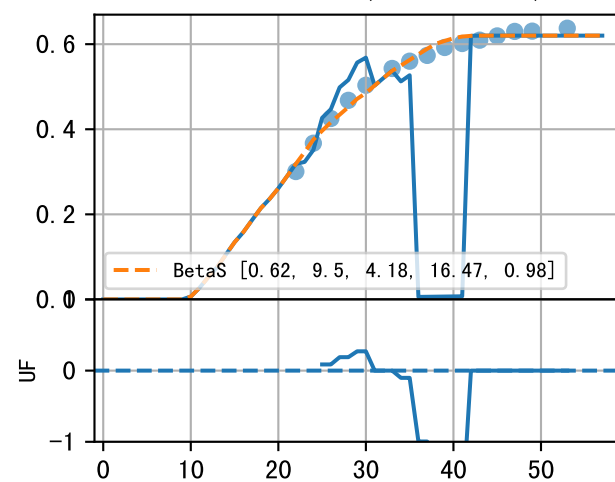
P3-045-17L12 (fit failed)



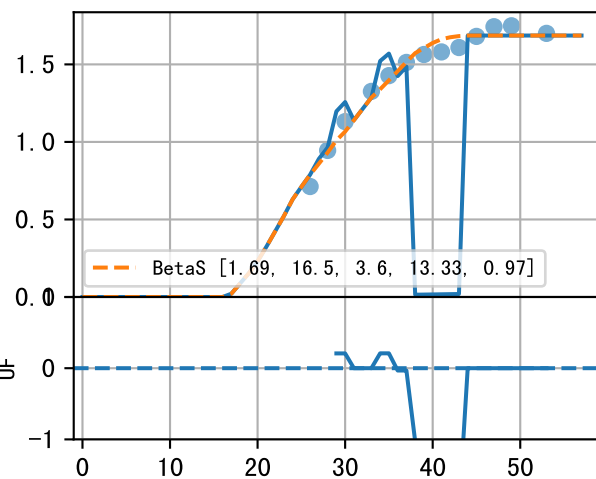
P3-045-17L15 (fit failed)



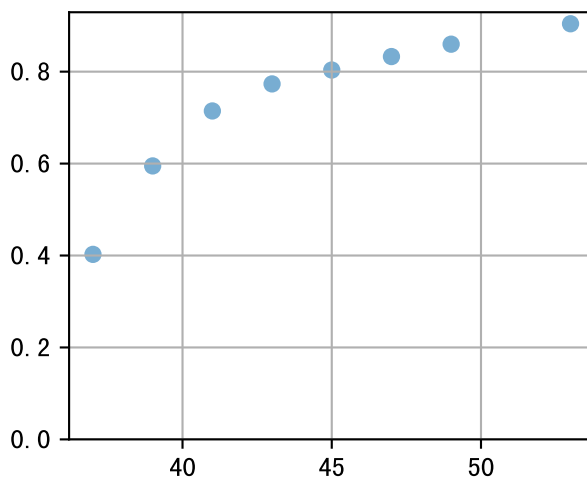
P3-045-17L6 (fit failed)



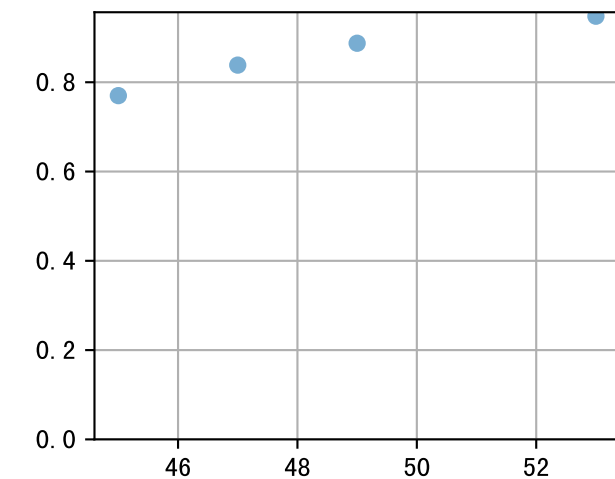
P3-054-28L10



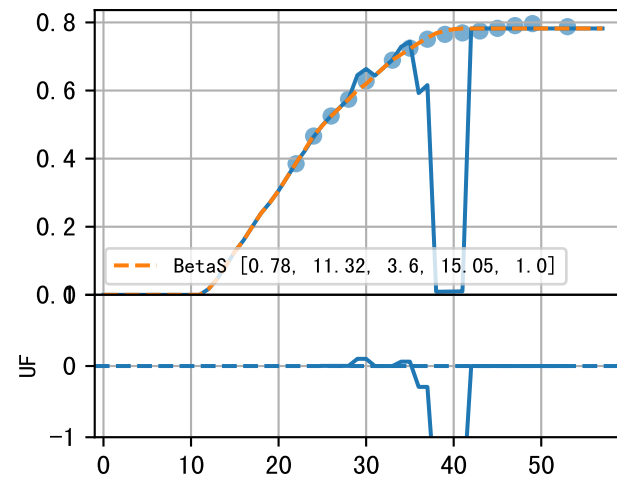
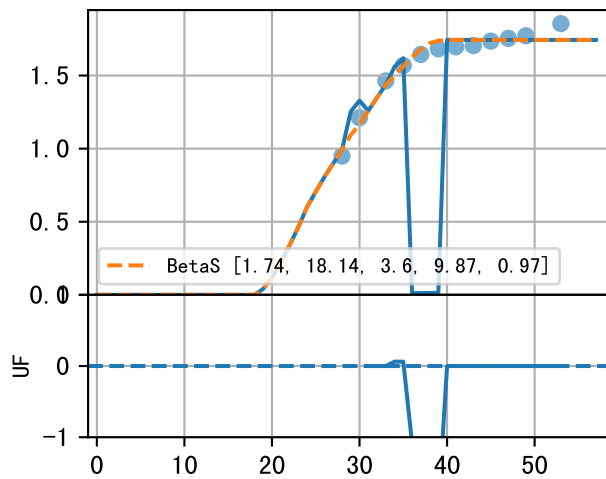
P3-054-28L13 (fit failed)



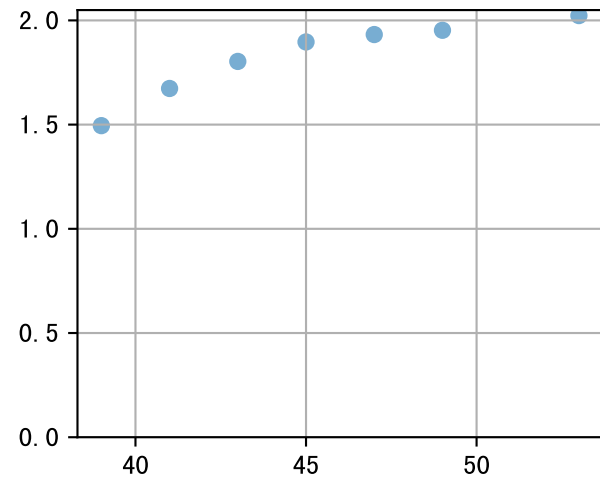
P3-054-28L16 (fit failed)



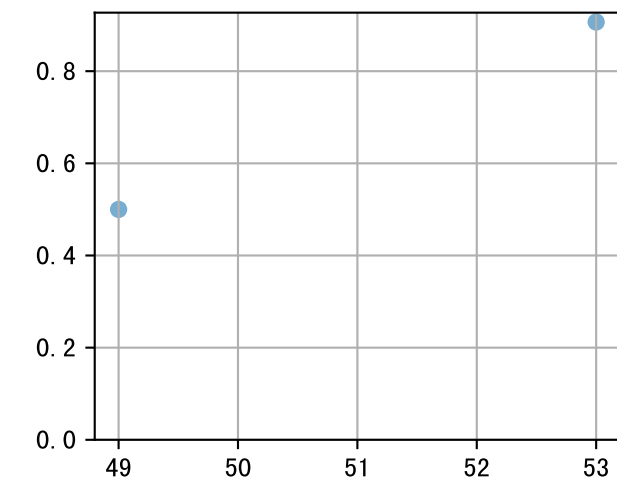
P3-054-28L7 (fit failed)

P3-068-4L10^{LfA} (fit failed)

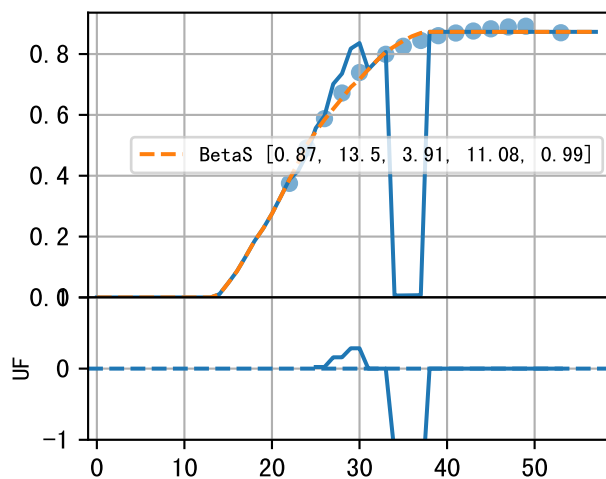
P3-068-4L13 (fit failed)



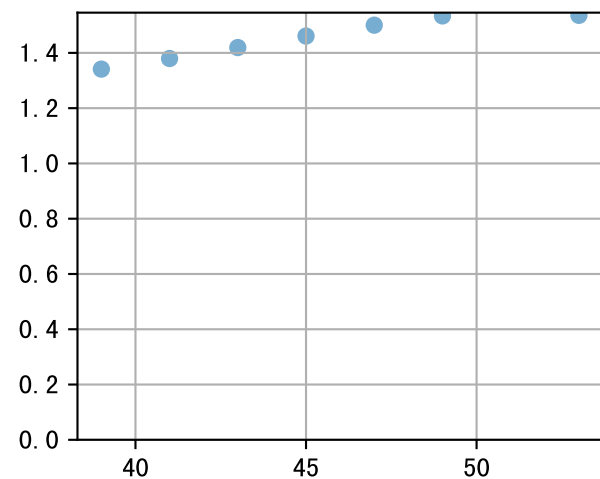
P3-068-4L16 (fit failed)



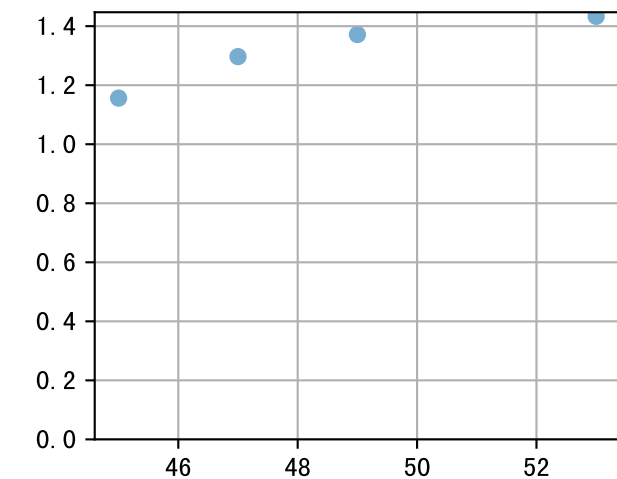
P3-068-4L7



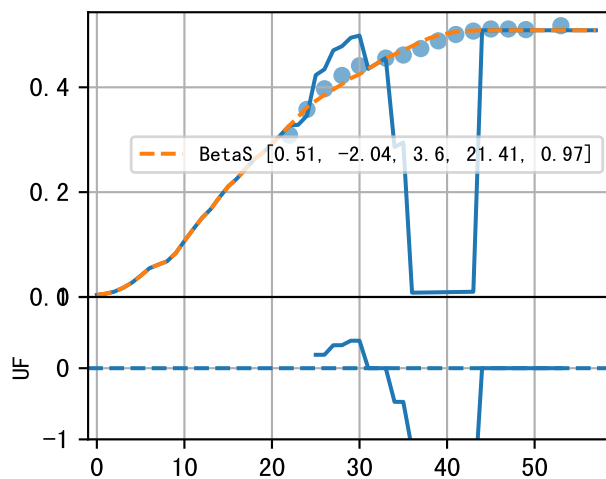
P3-075-19L12 (fit failed)



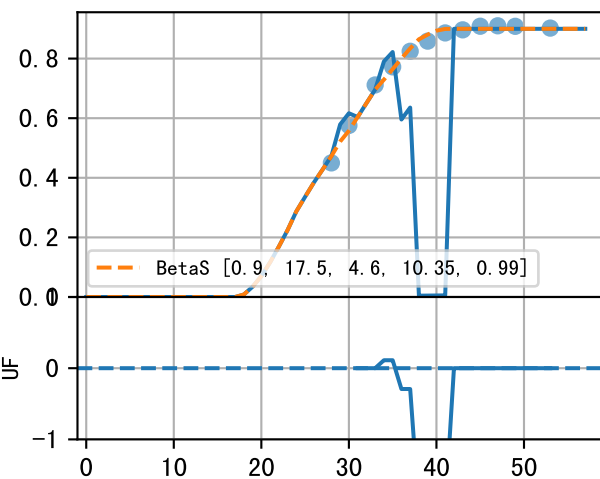
P3-075-19L15 (fit failed)



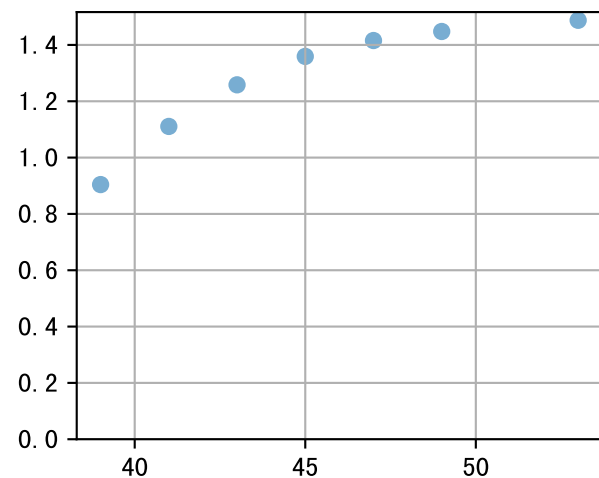
P3-075-19L6 (fit failed)



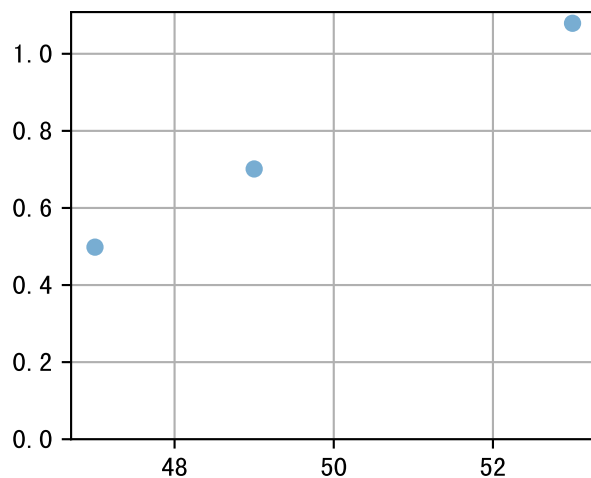
P3-075-19L9



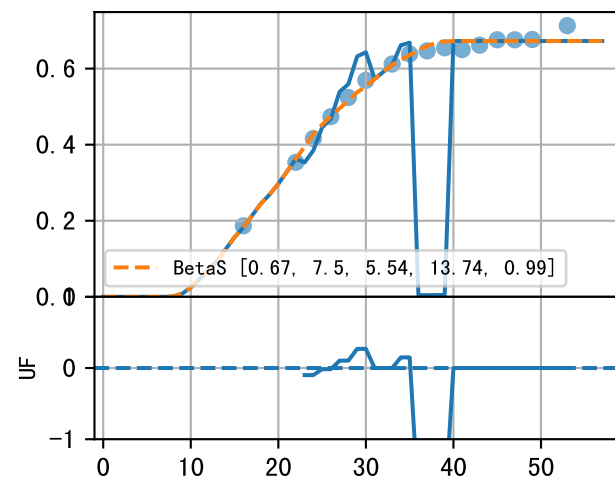
P3-084-11L13 (fit failed)



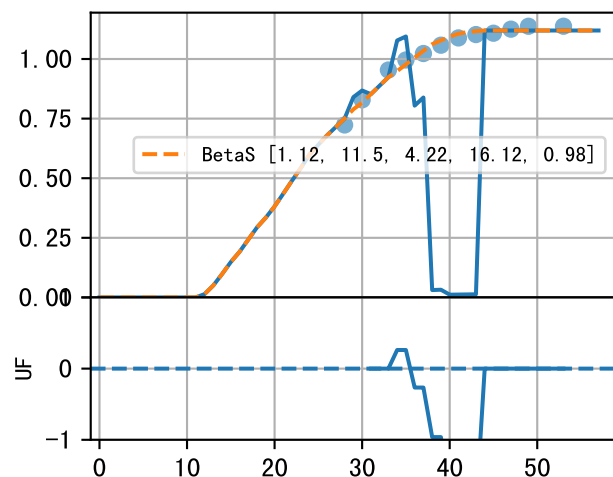
P3-084-11L16 (fit failed)



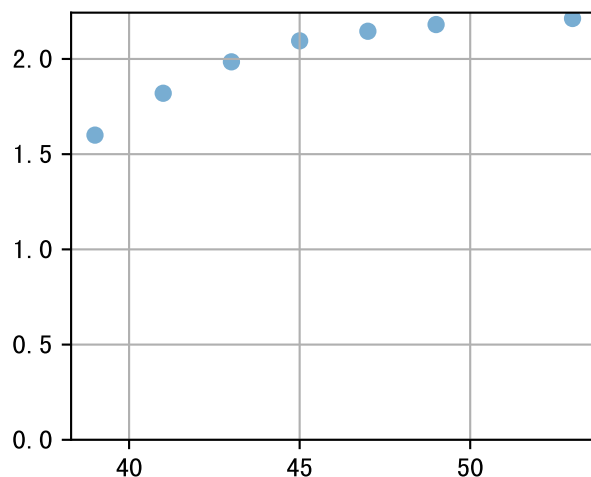
P3-084-11L6 (fit failed)



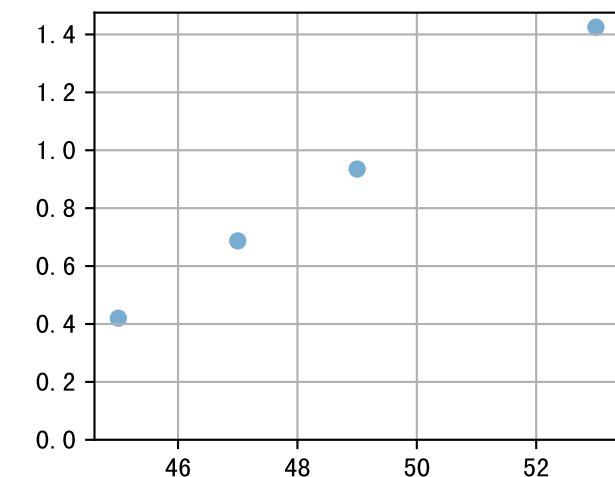
P3-084-11L9 (fit failed)



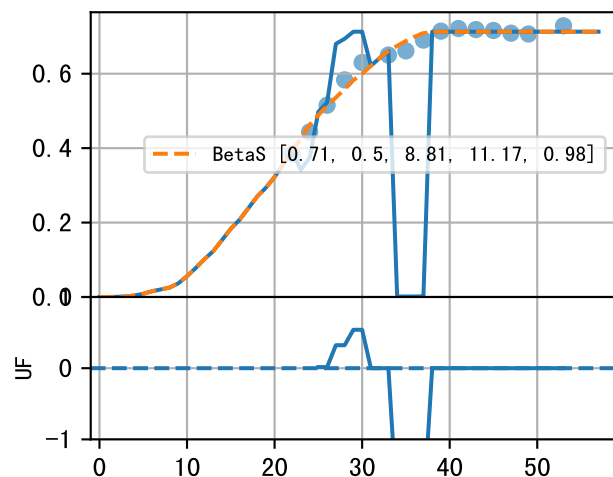
P3-099-4L12 (fit failed)



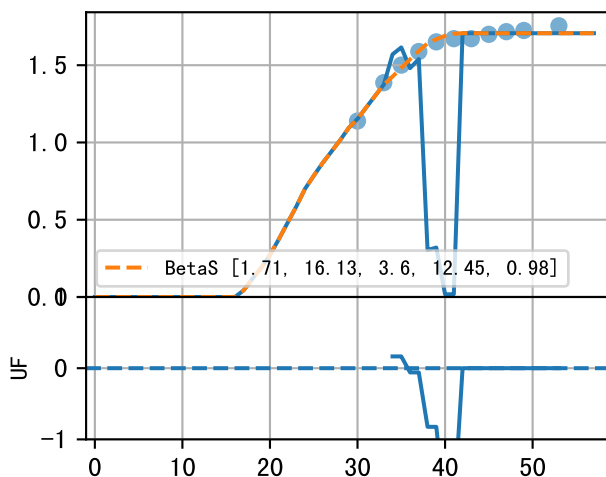
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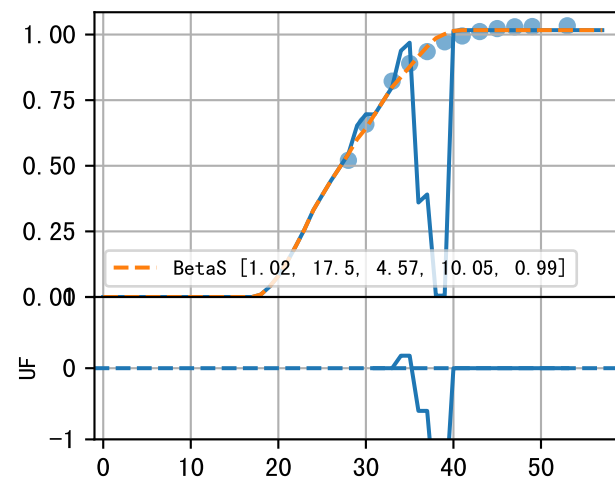
P3-099-4L6 (fit failed)



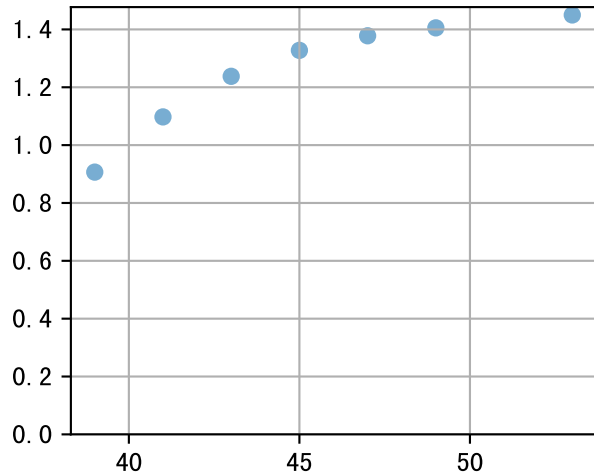
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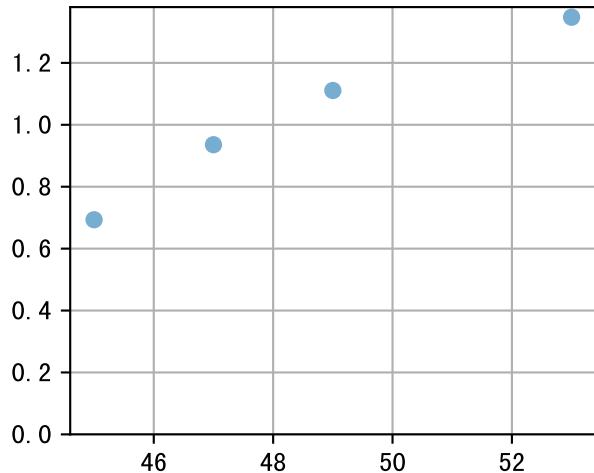
P3-110-23L10



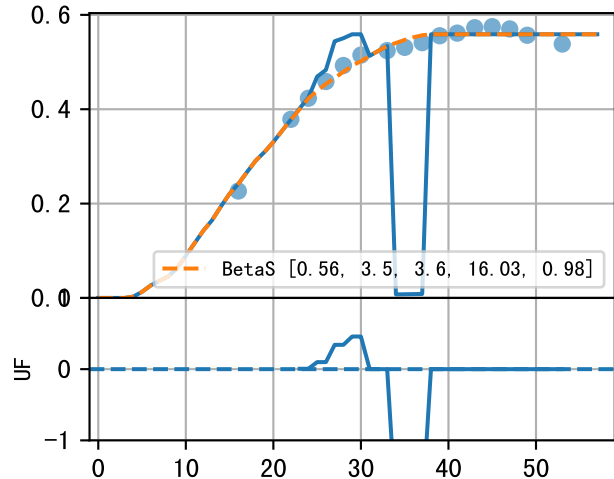
P3-110-23L14 (fit failed)

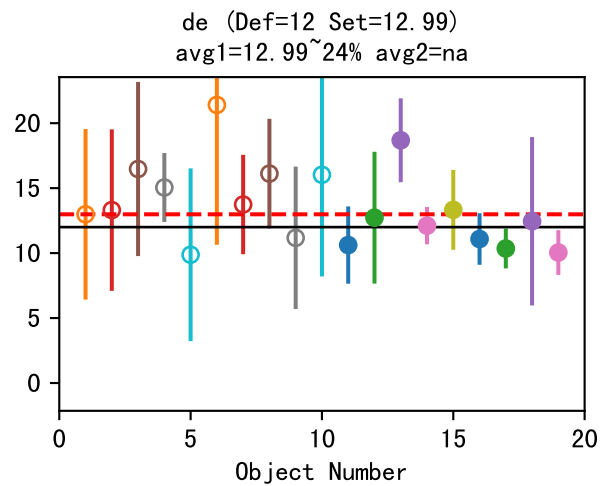
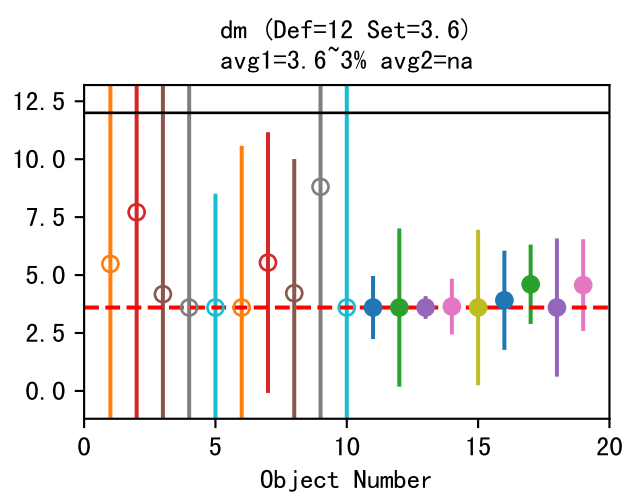
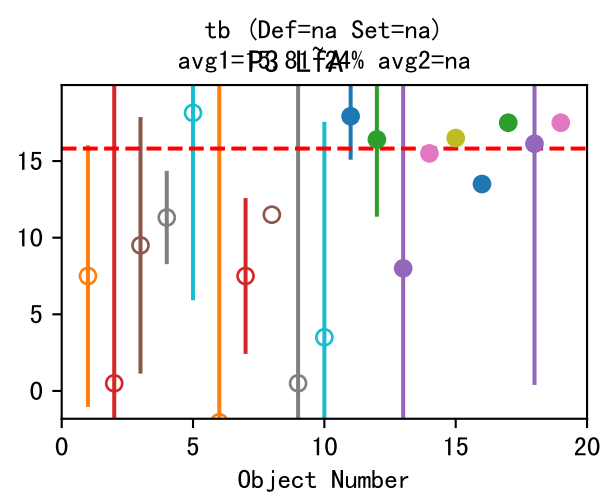
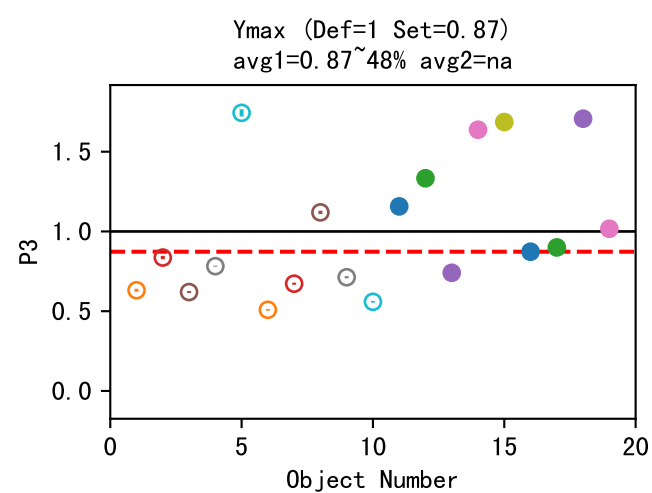


P3-110-23L17 (fit failed)

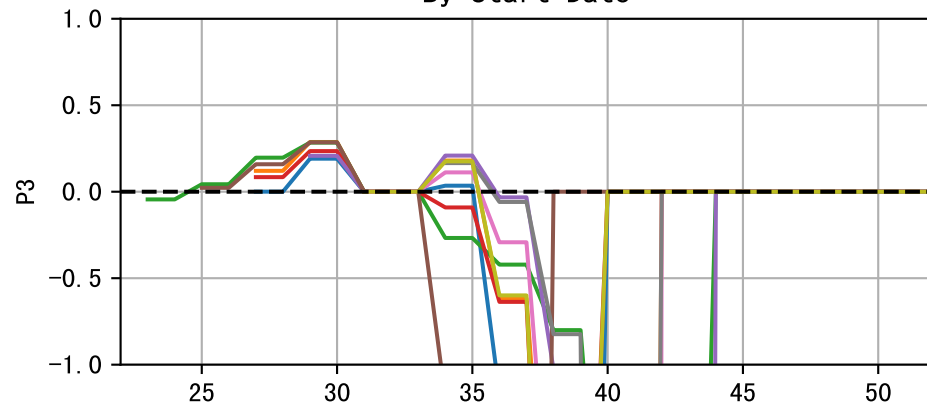


P3-110-23L6 (fit failed)

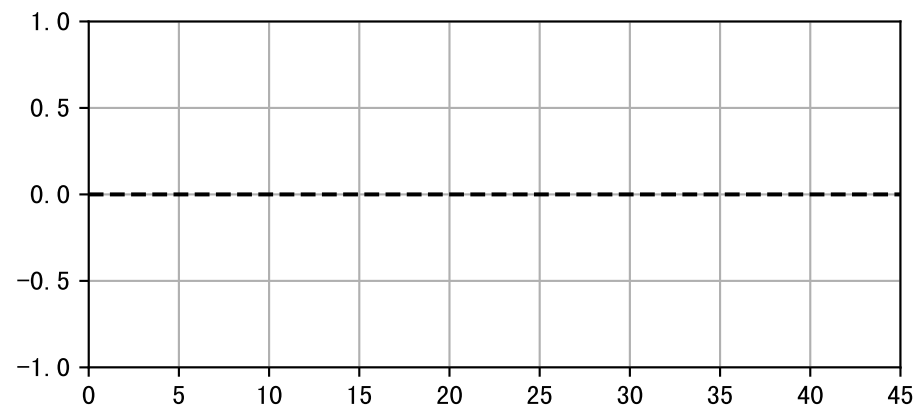
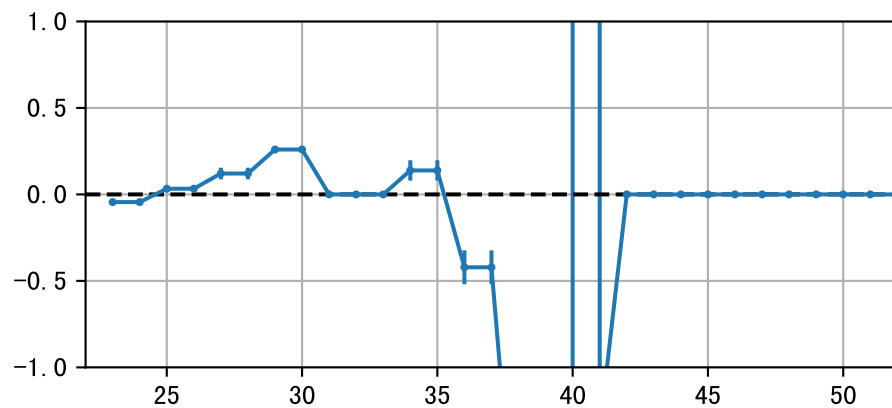
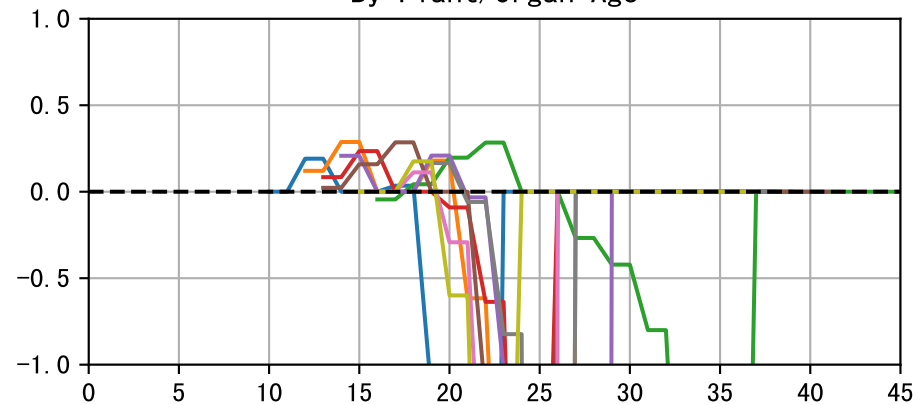


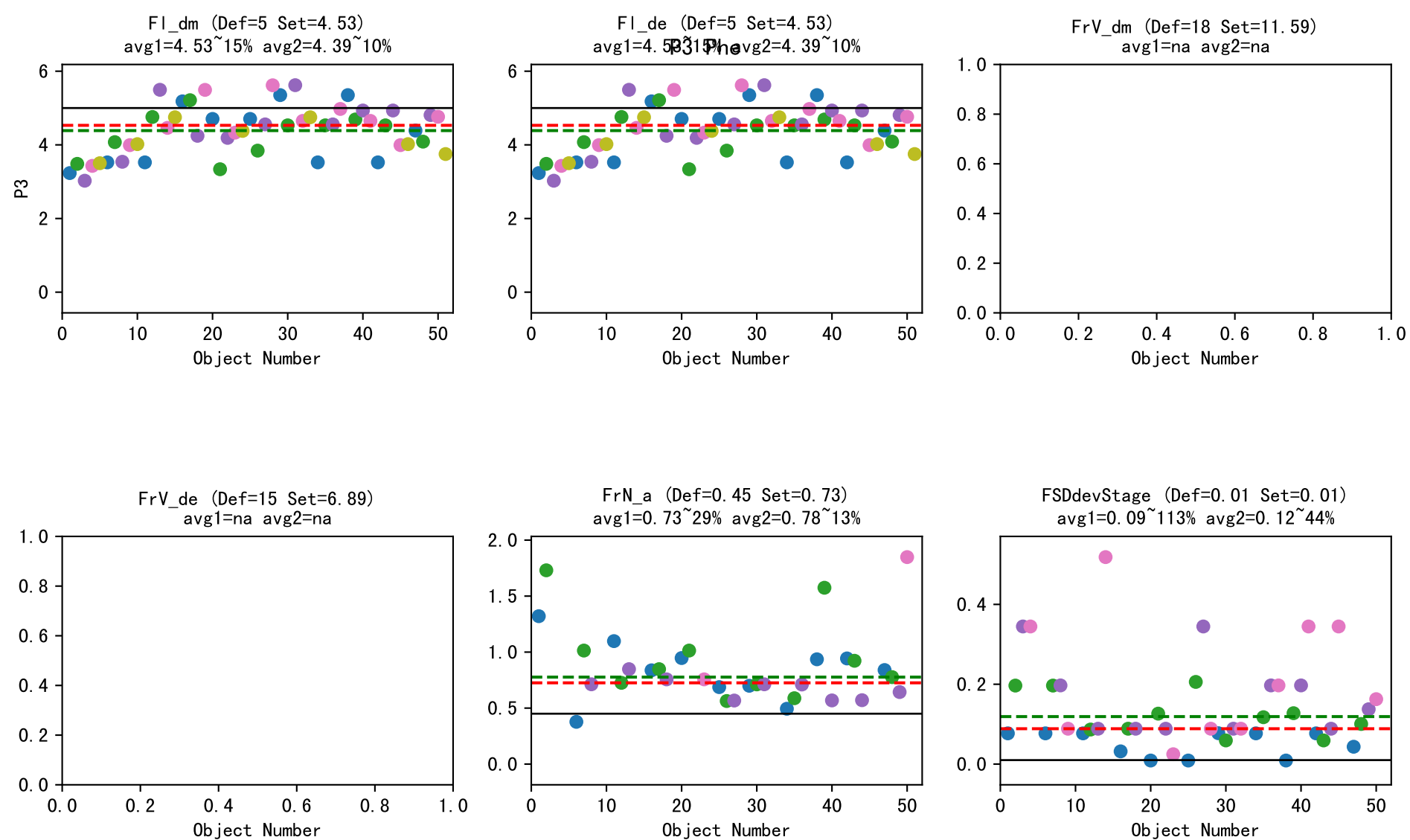


By Start Date

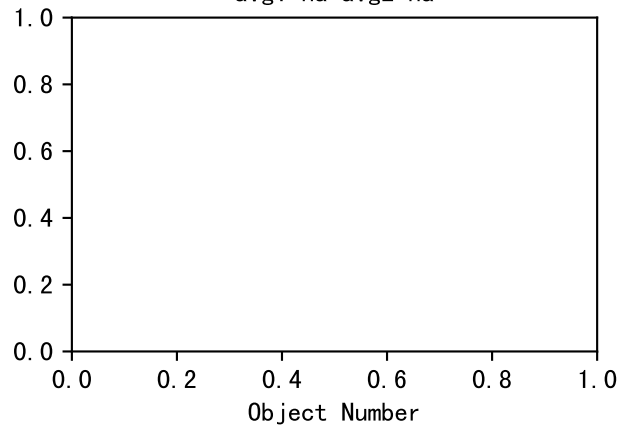


By Plant/Organ Age

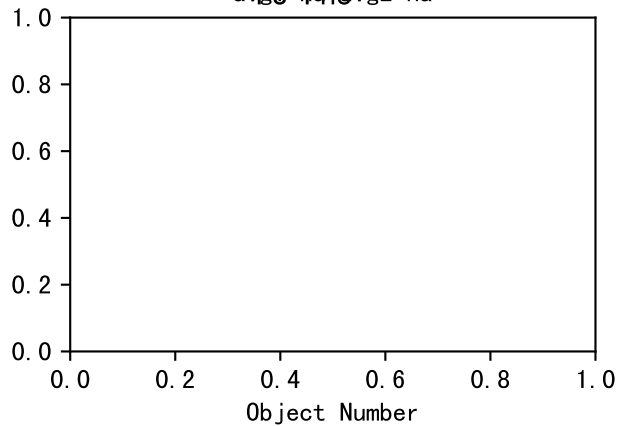




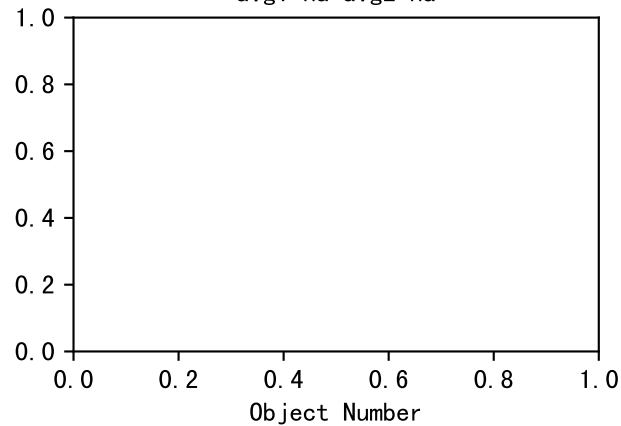
FGDdevStage (Def=0.7 Set=0.7)
avg1=na avg2=na



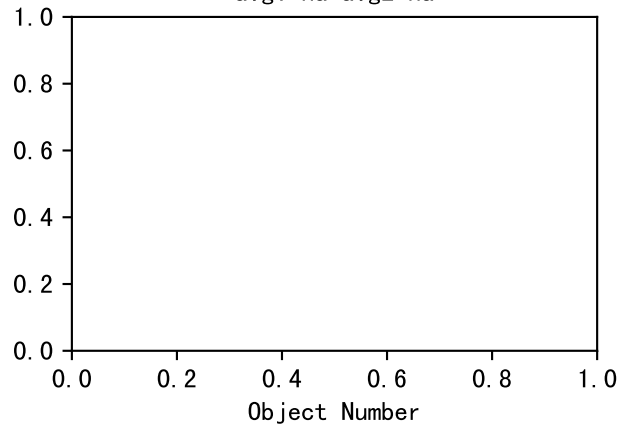
FMBDDdevStage (Def=1.3 Set=1.3)
avg1=na avg2=na



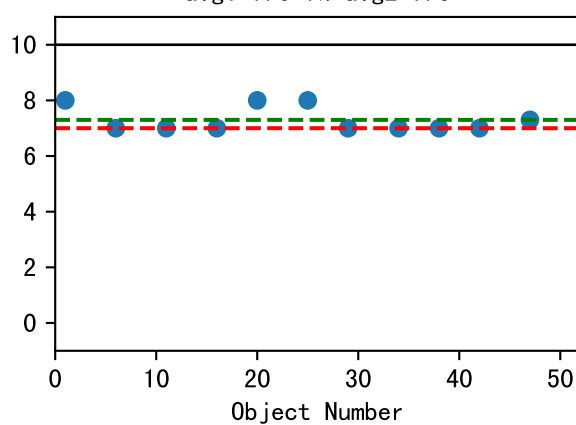
FMEDdevStage (Def=1.8 Set=1.8)
avg1=na avg2=na



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

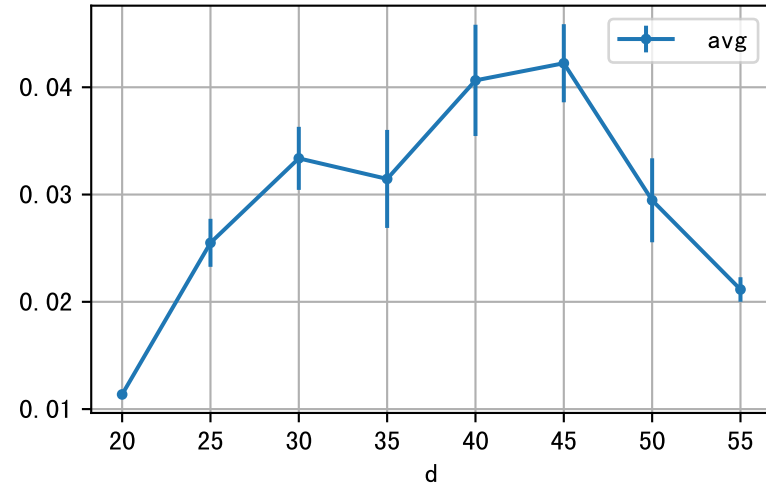


NNgen (Def=10 Set=7)
avg1=7.0~7% avg2=7.3

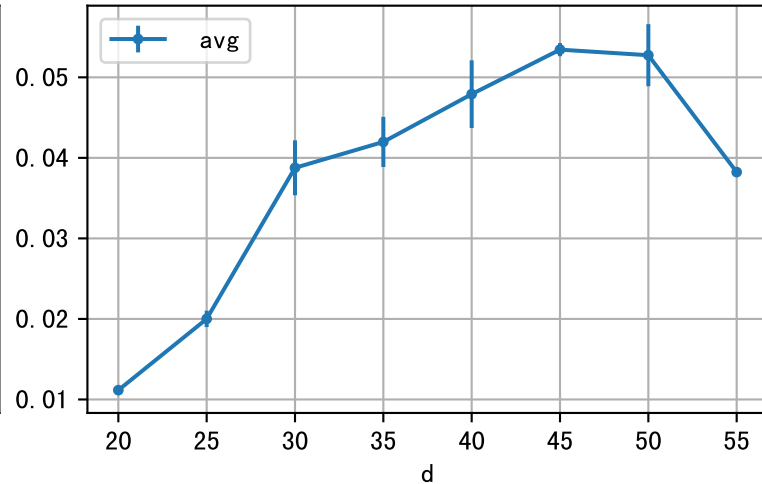


LfA: avg vs. d at each age group

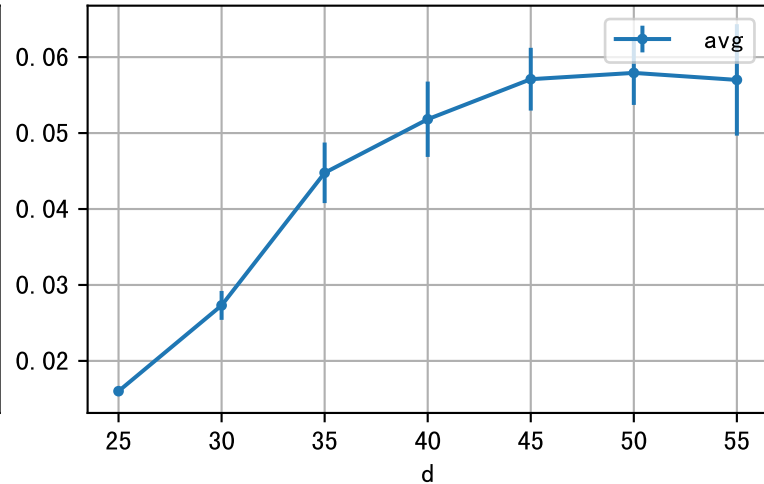
age=15



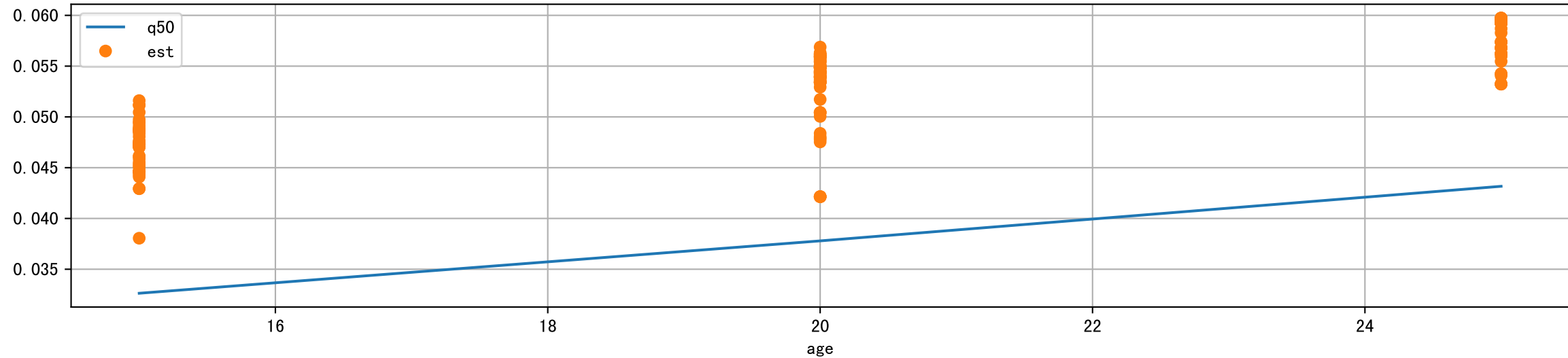
age=20



age=25

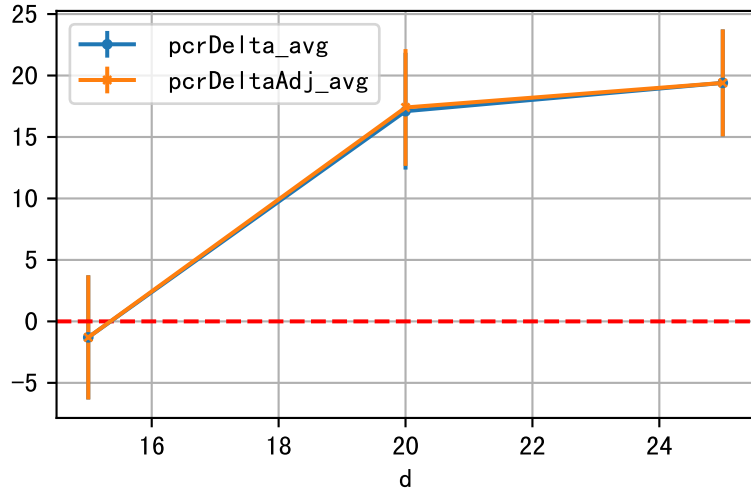


LfA: model est vs obs0v@Q50

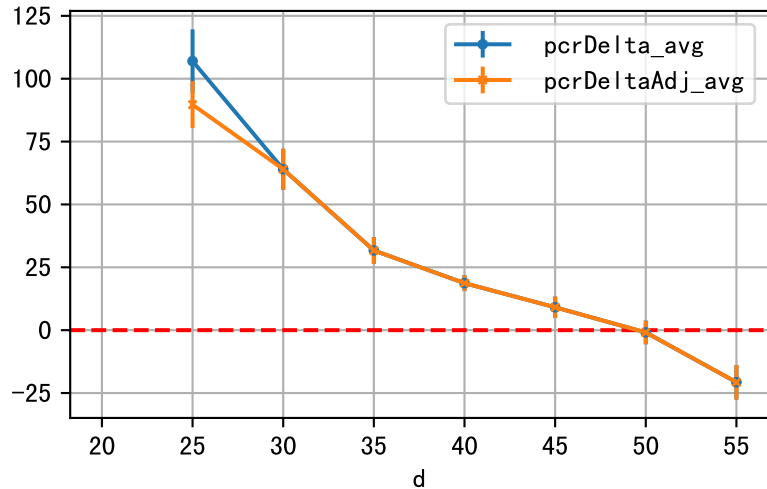


P3 LfA: D_5d_LfA

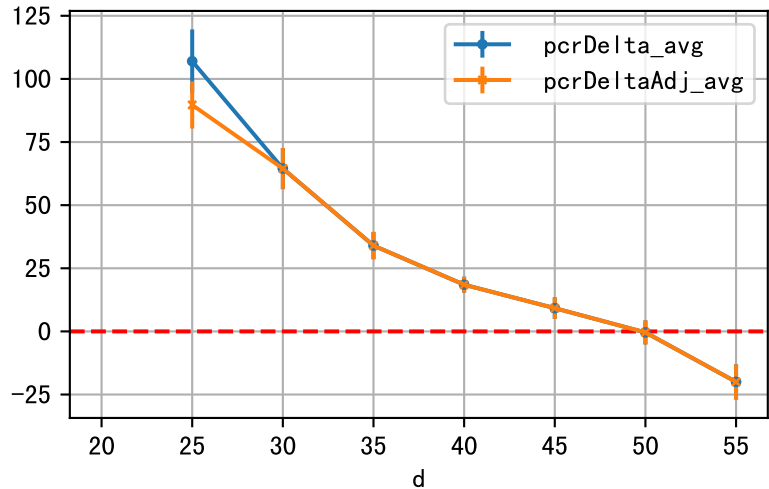
DeltaTypeAbbr=GrpByAge



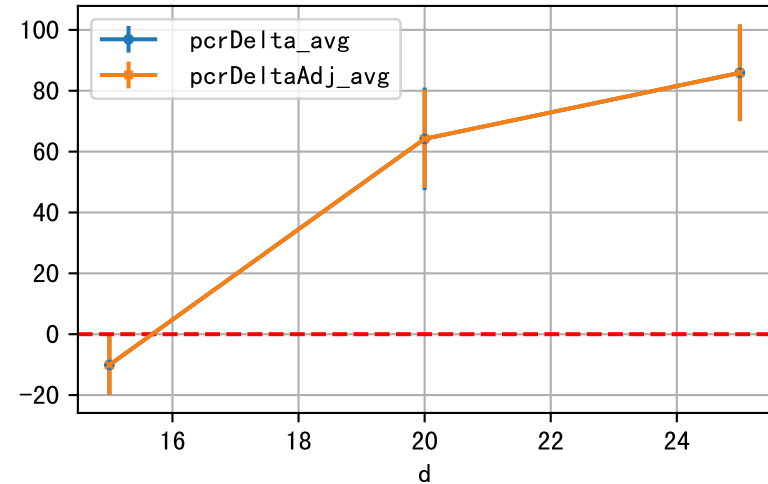
DeltaTypeAbbr=GrpByDay



DeltaTypeAbbr=Wei AvgByD

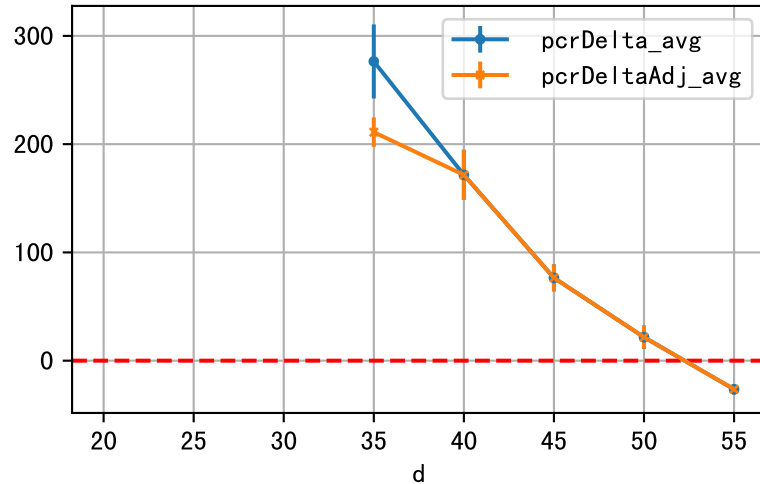


DeltaTypeAbbr=GrpByAge

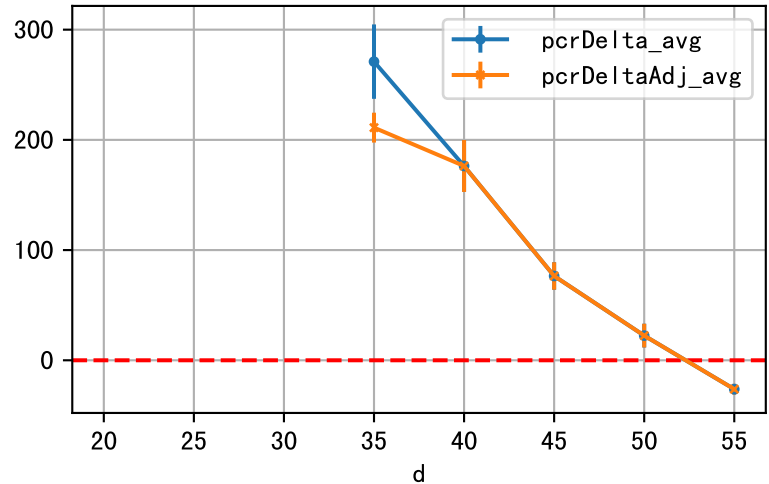


P3 LfA: D_15d_LfA

DeltaTypeAbbr=GrpByDay

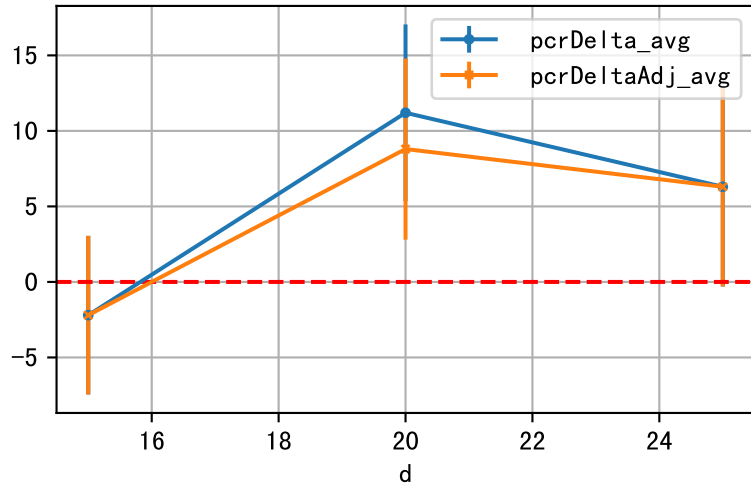


DeltaTypeAbbr=Wei AvgByD

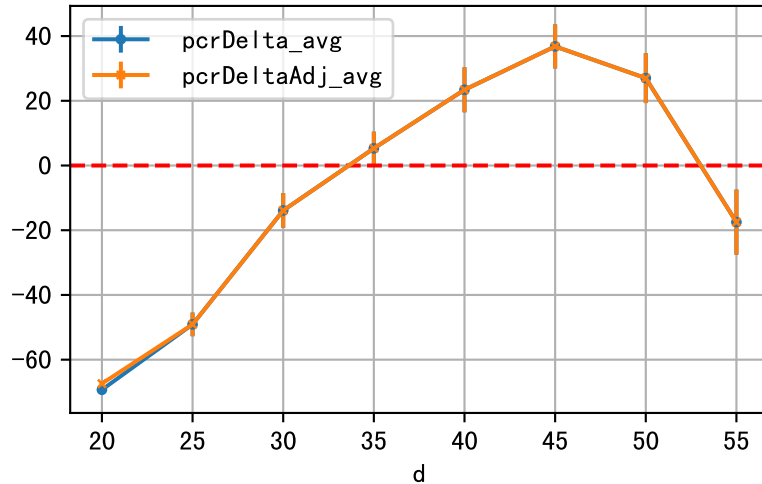


P3 LfA: D_Q50_LfA

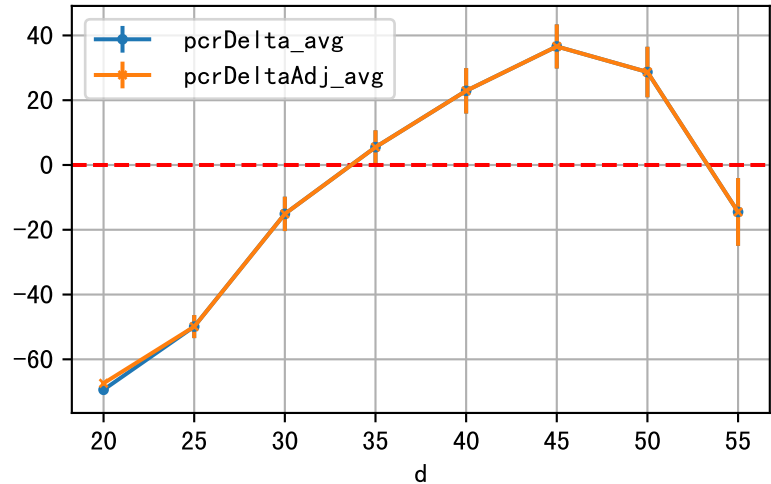
DeltaTypeAbbr=GrpByAge



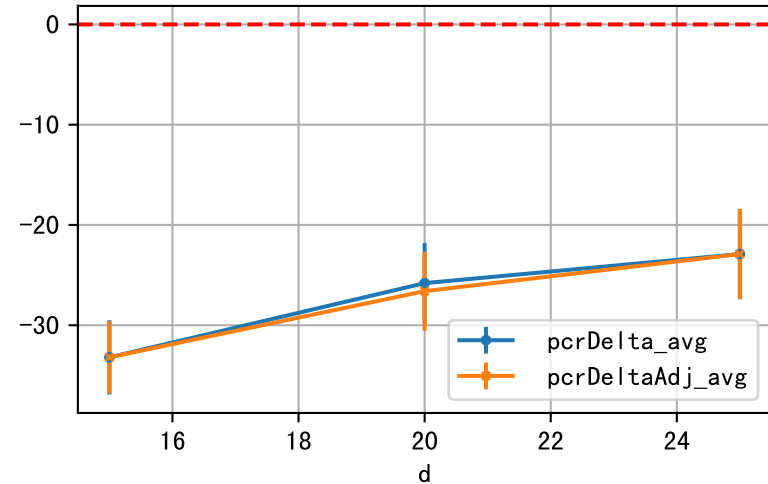
DeltaTypeAbbr=GrpByDay



DeltaTypeAbbr=WeiAvgByD

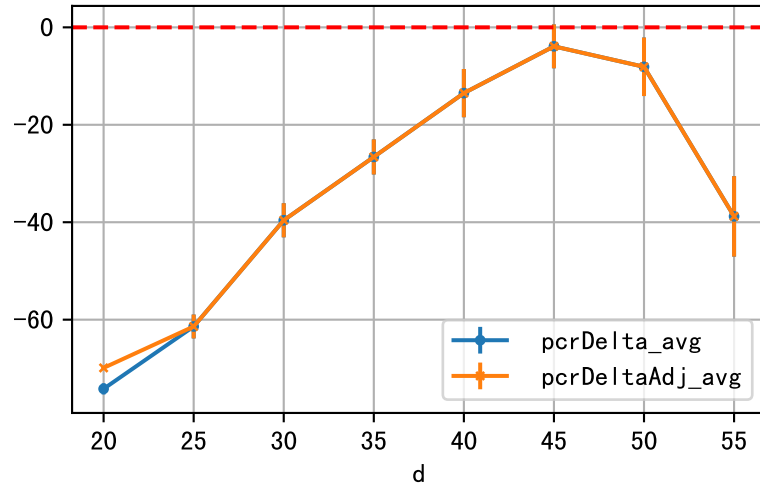


DeltaTypeAbbr=GrpByAge

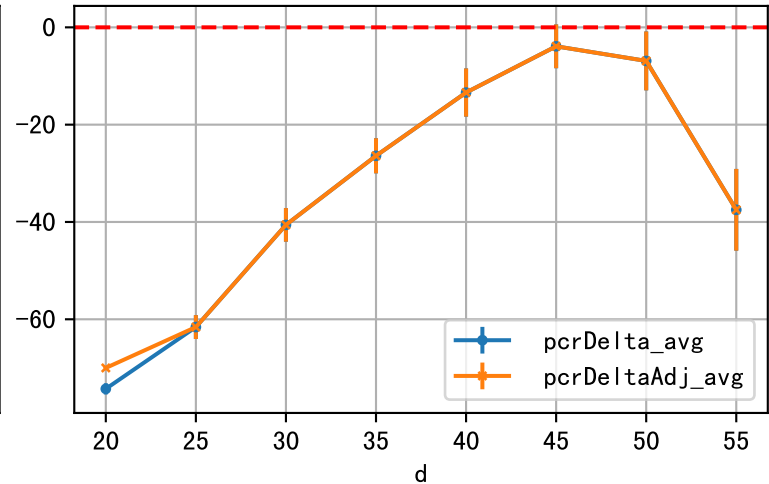


P3 LfA: D_Est_LfA

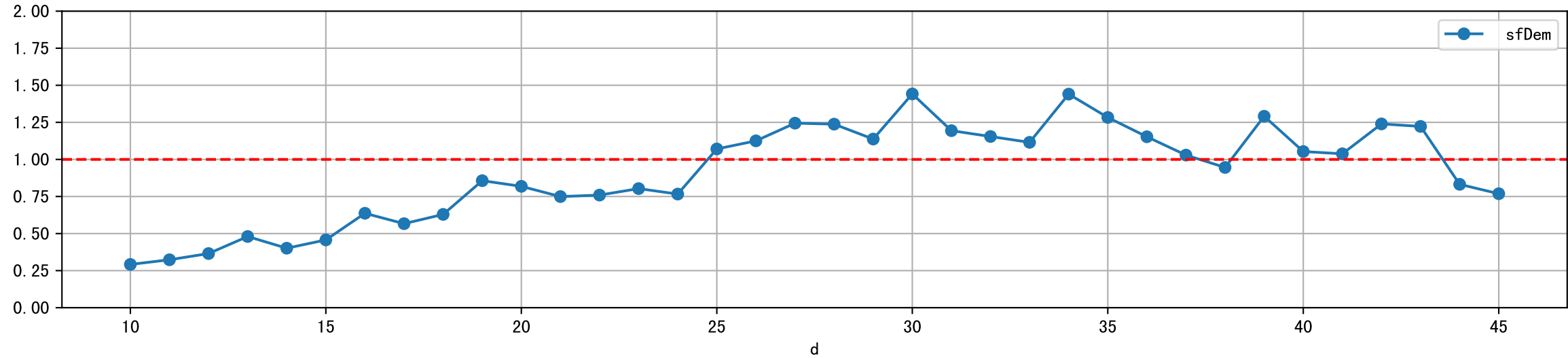
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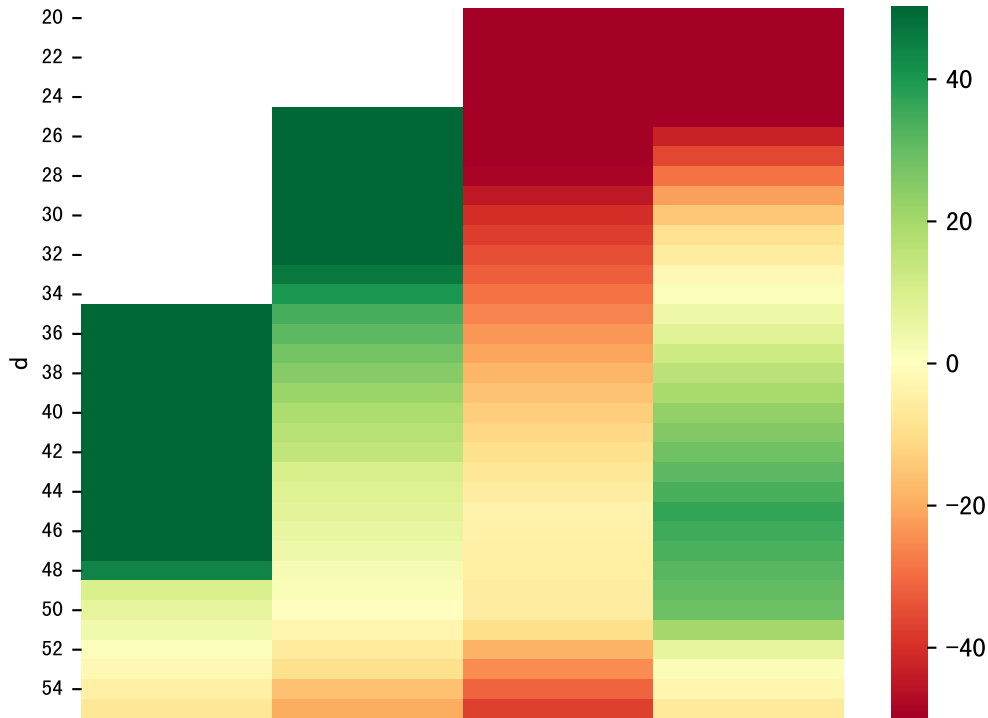


DeltaTypeAbbr=WeiAvgByD



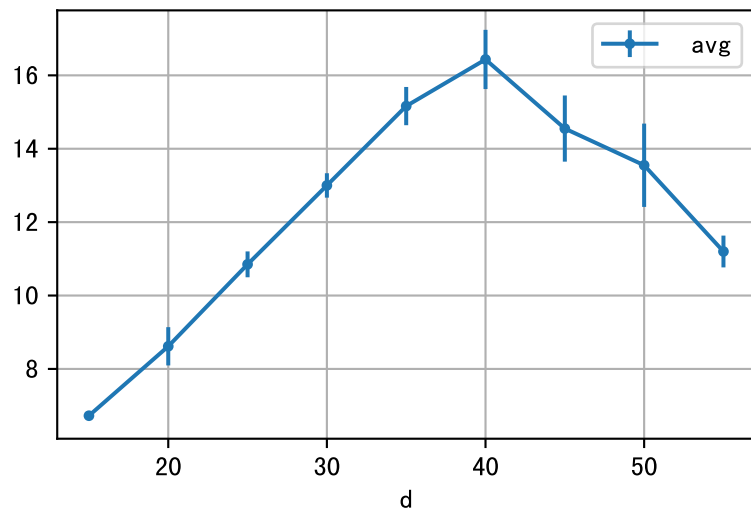
LfA: sfDem



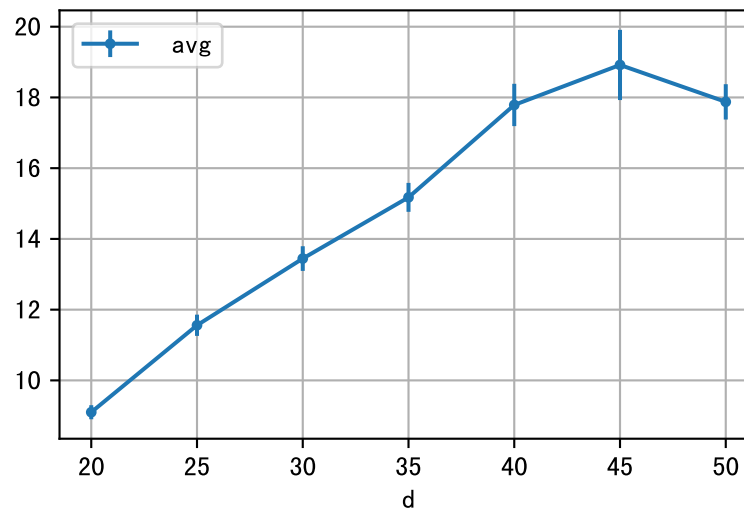


NdD: avg vs. d at each age group

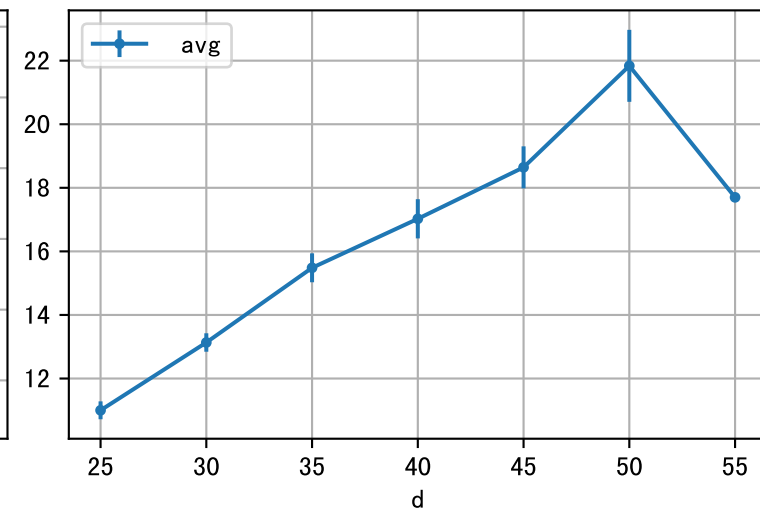
age=15



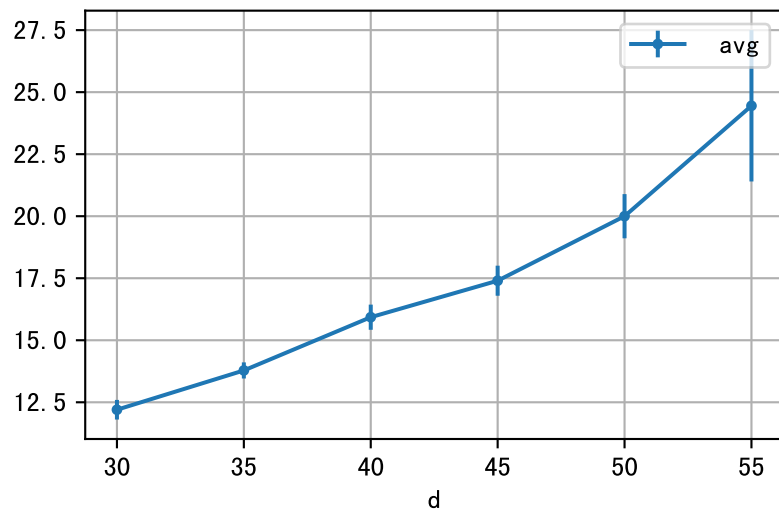
age=20



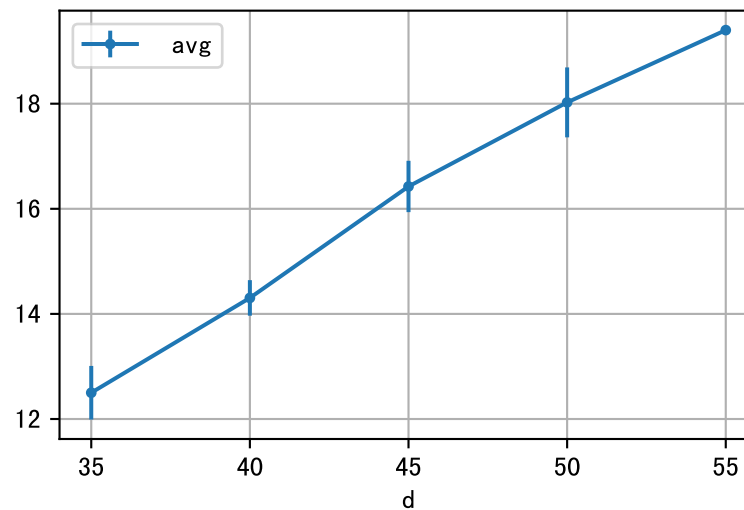
age=25



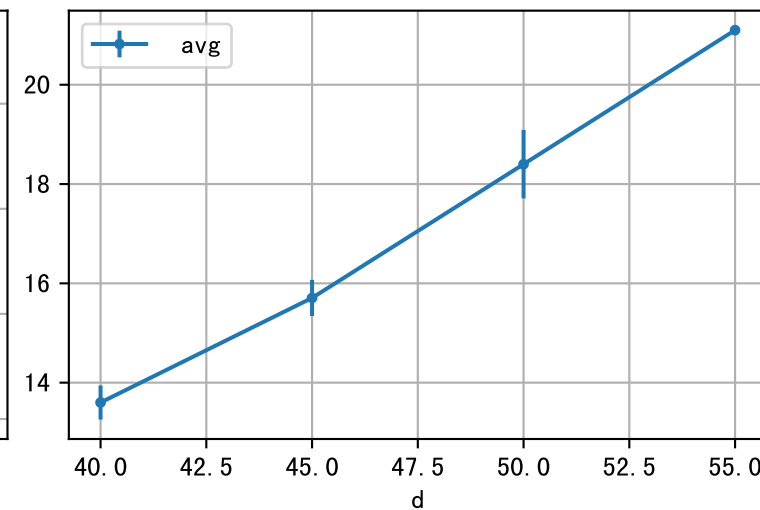
age=30



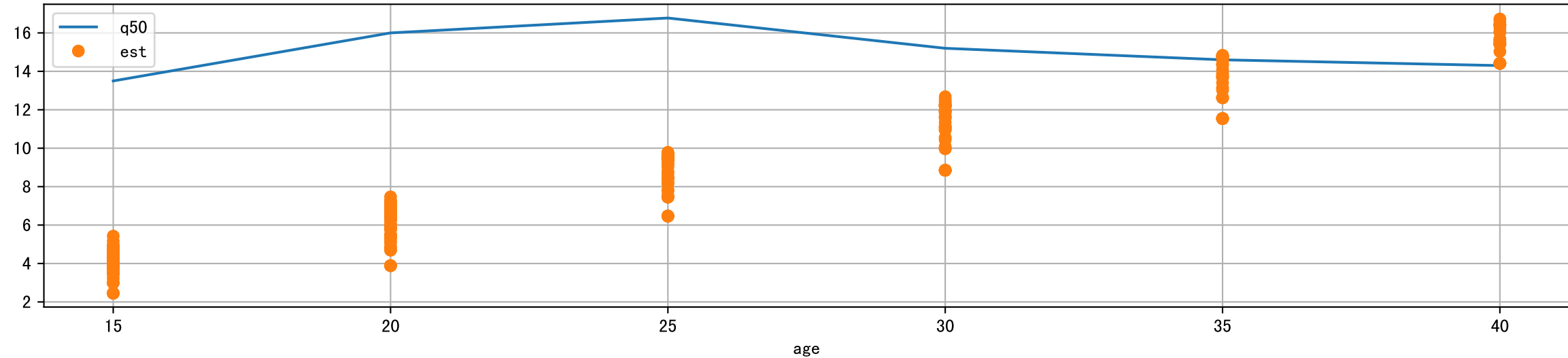
age=35



age=40

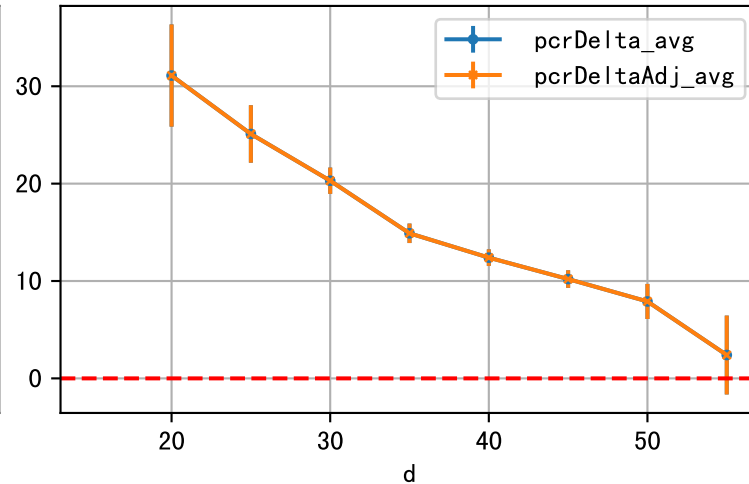


NdD: model est vs obs0v@Q50

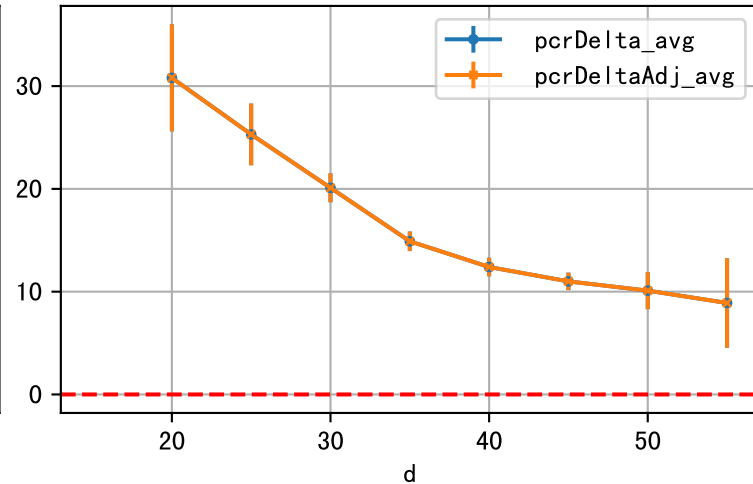


P3 NdD: D_5d_NdD

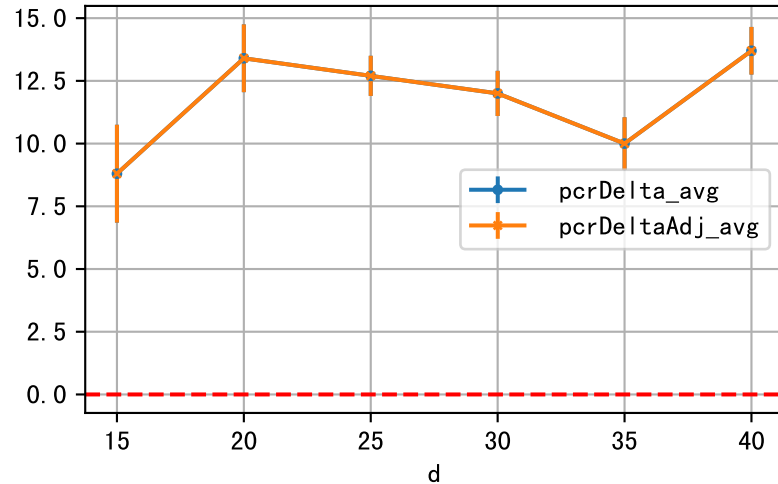
DeltaTypeAbbr=GrpByDay



DeltaTypeAbbr=Wei AvgByD

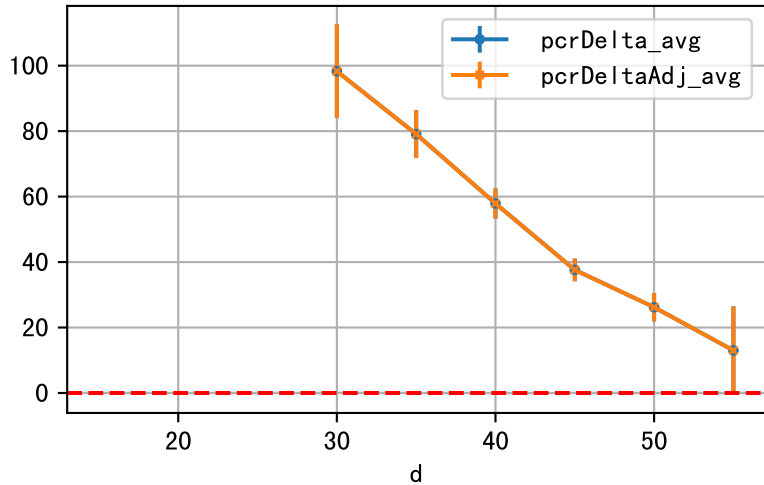


DeltaTypeAbbr=GrpByAge

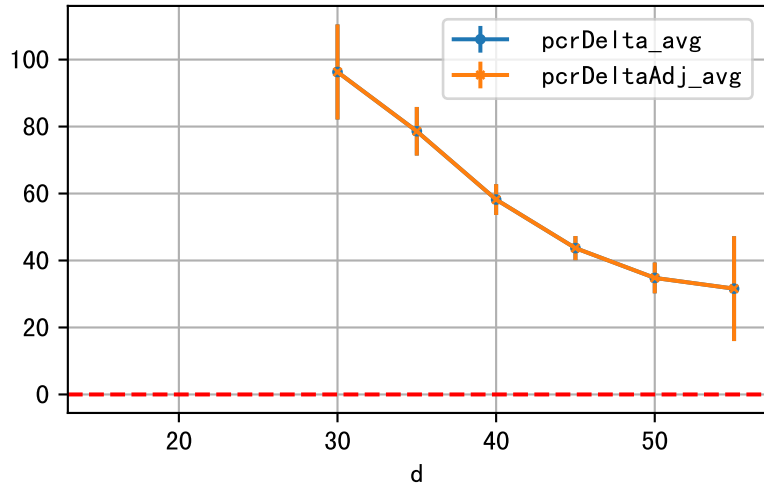


P3 NdD: D_15d_NdD

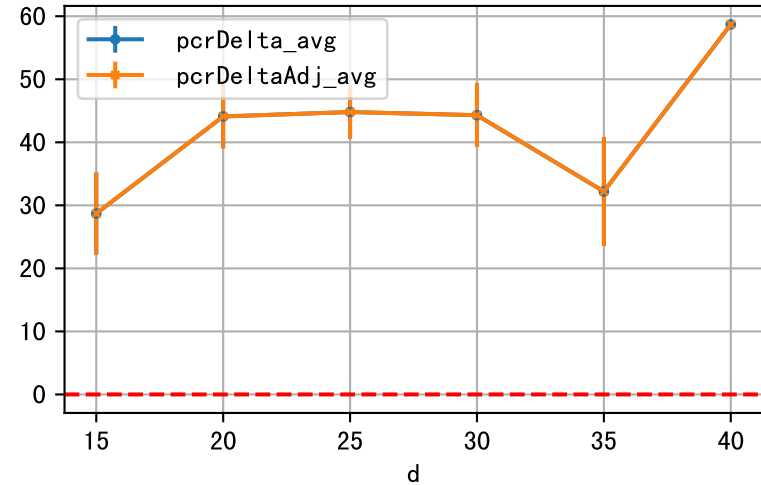
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DeltaTypeAbbr=Wei AvgByD

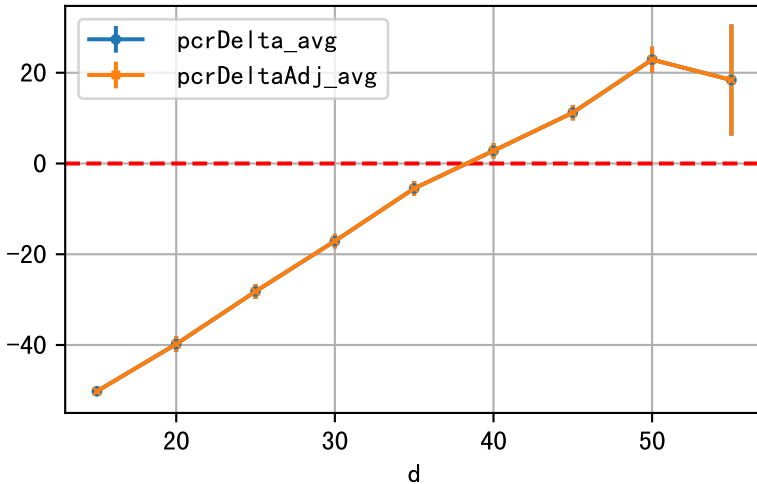


DeltaTypeAbbr=GrpByAge



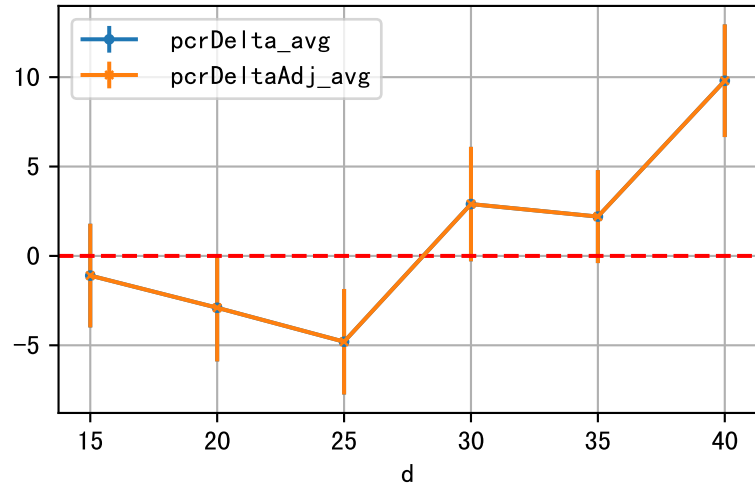
P3 NdD: D_Q50_NdD

DeltaTypeAbbr=GrpByDay

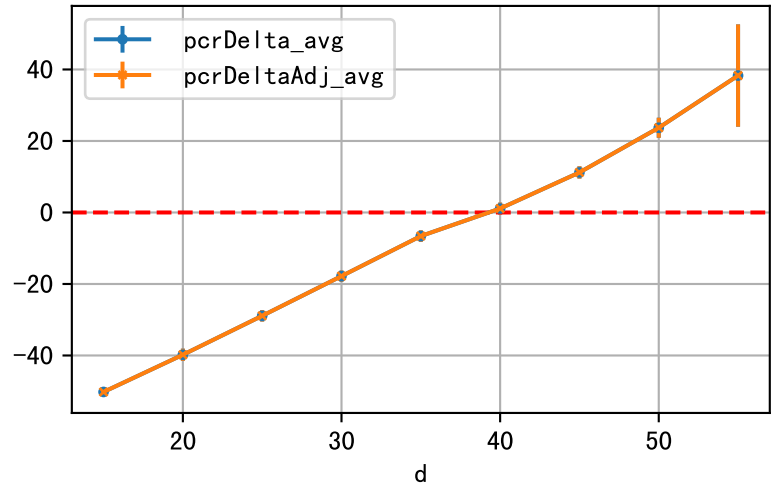


P3 NdD: D_Q50_NdD

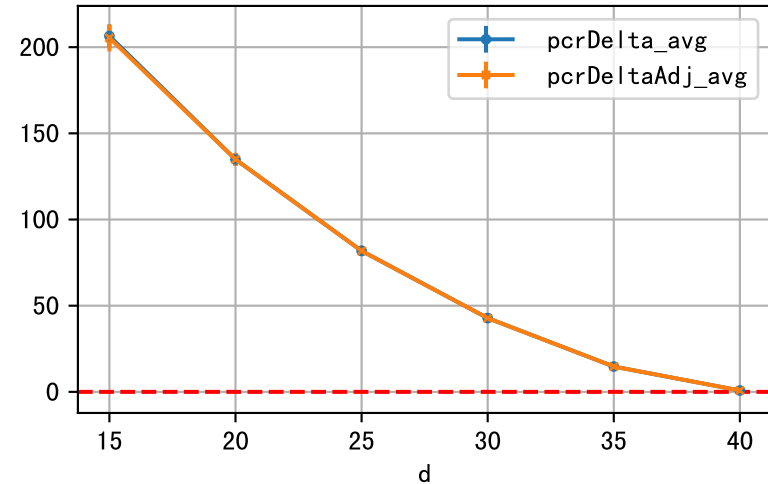
DeltaTypeAbbr=GrpByAge



DeltaTypeAbbr=Wei AvgByD

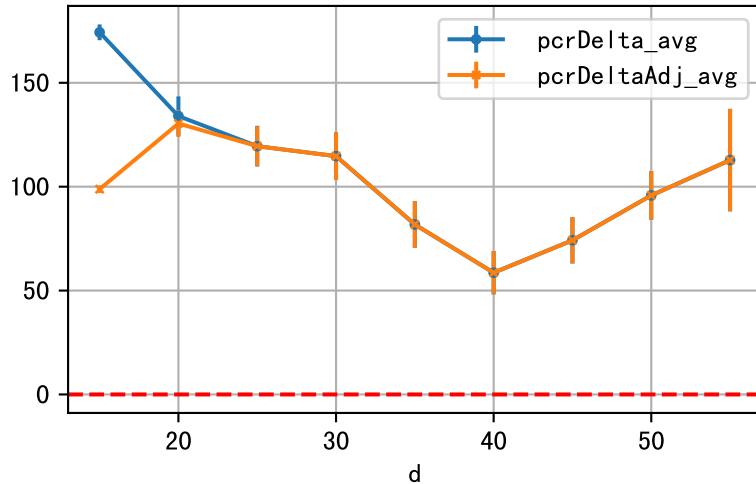


DeltaTypeAbbr=GrpByAge

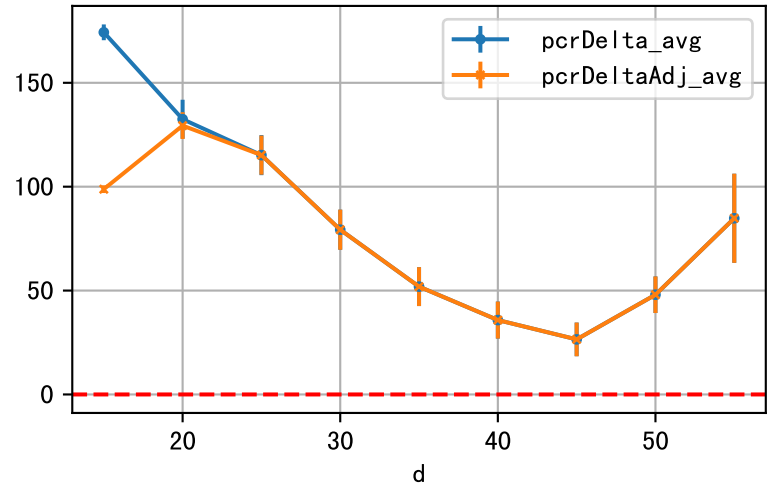


P3 NdD: D_Est_NdD

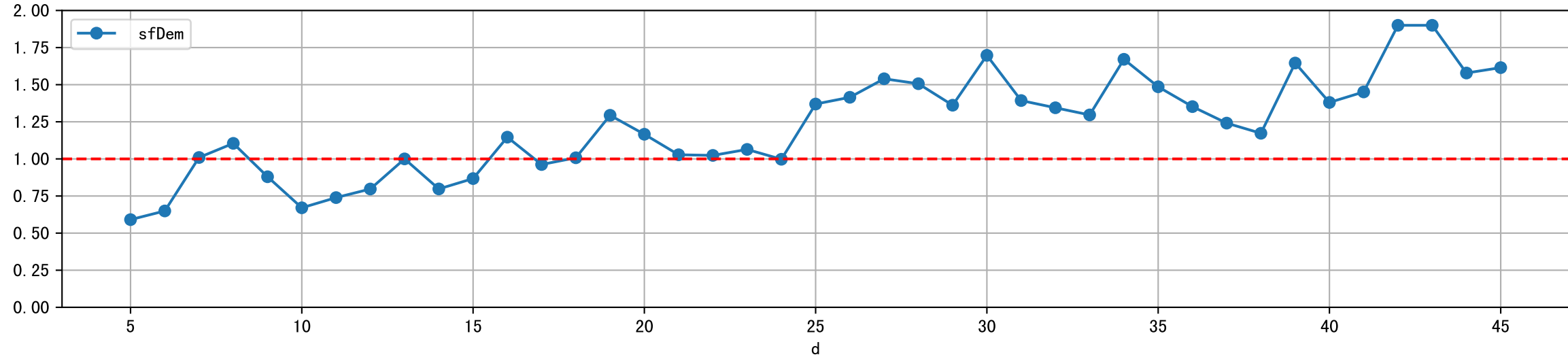
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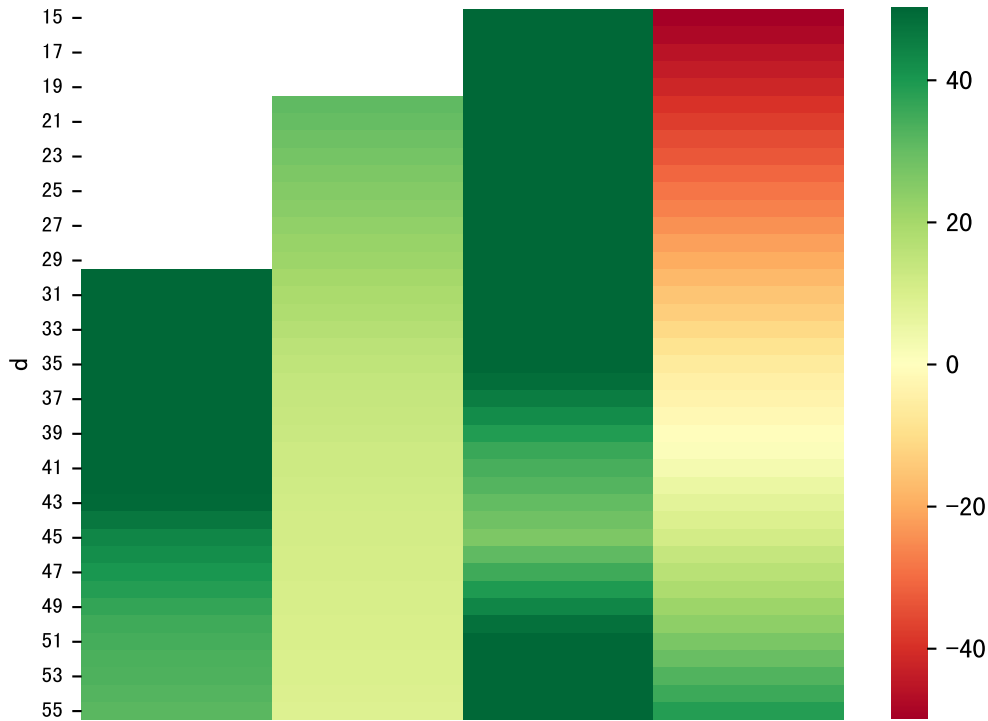


DeltaTypeAbbr=Wei AvgByD

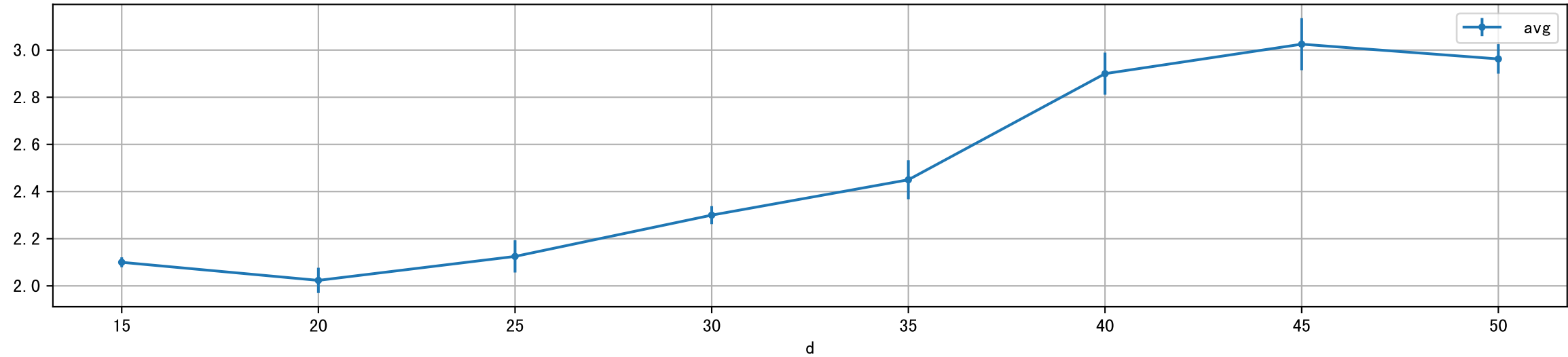


NdD: sfDem

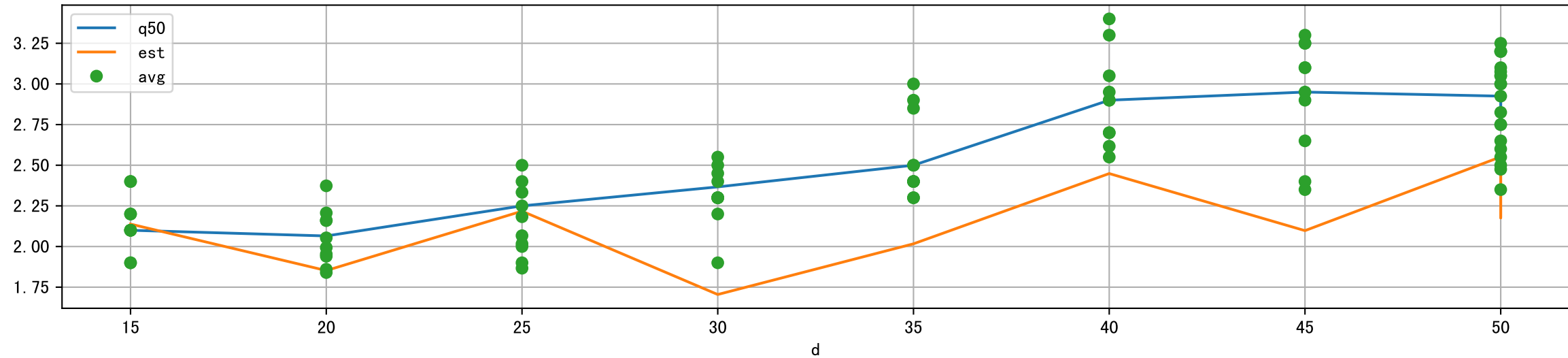




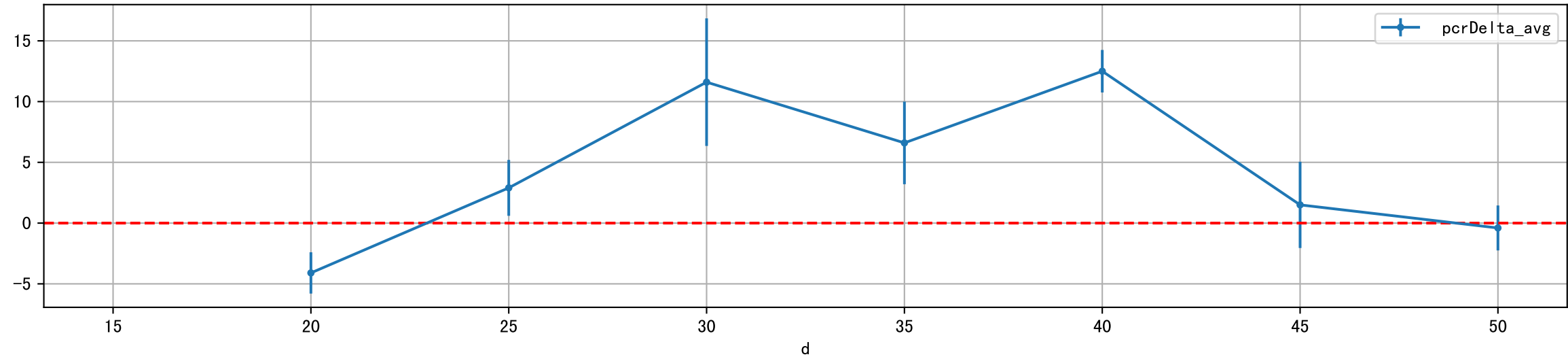
dStH: avg vs. d



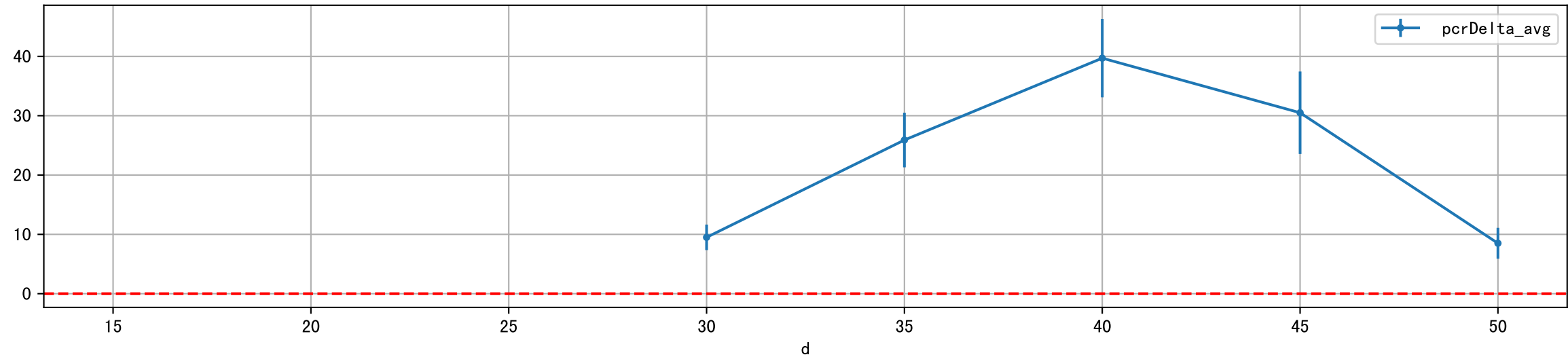
dStH: obsAvg vs obs0v@Q50



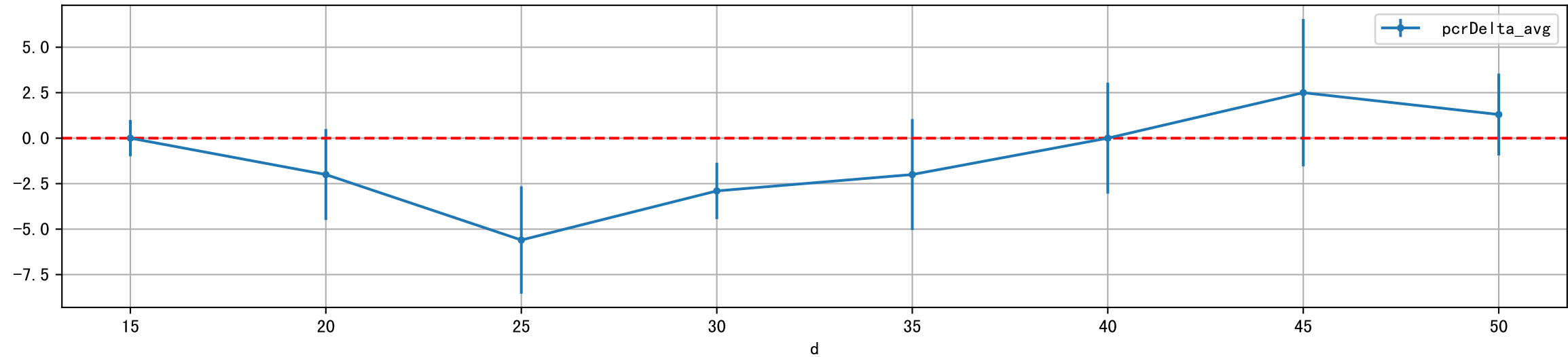
dStH: D_5d_StH



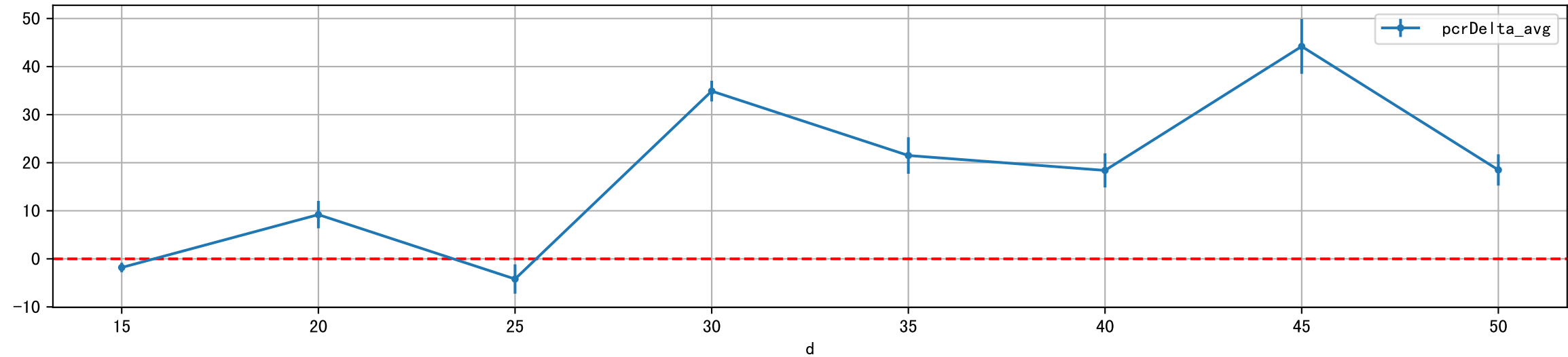
dStH: D_15d_StH



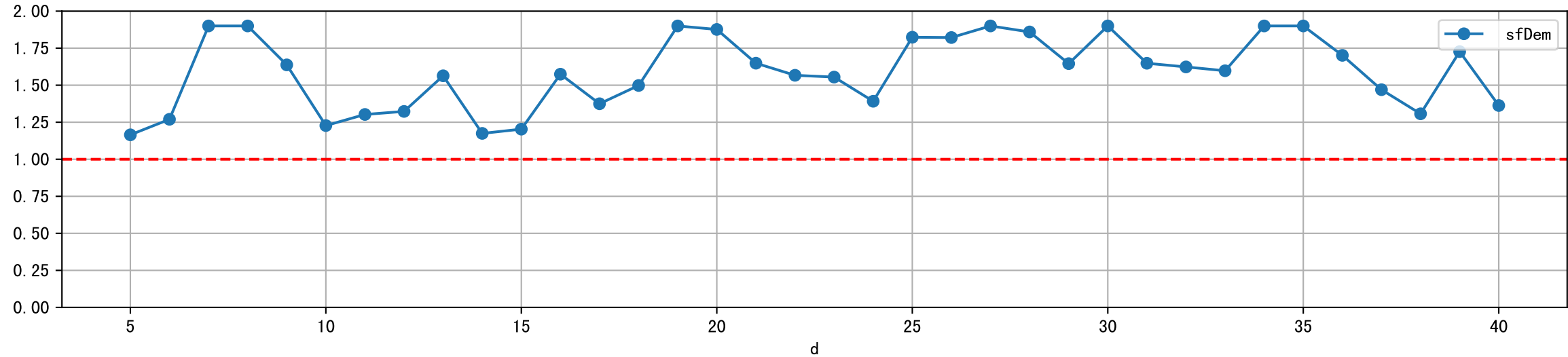
dStH: D_Q50_StH

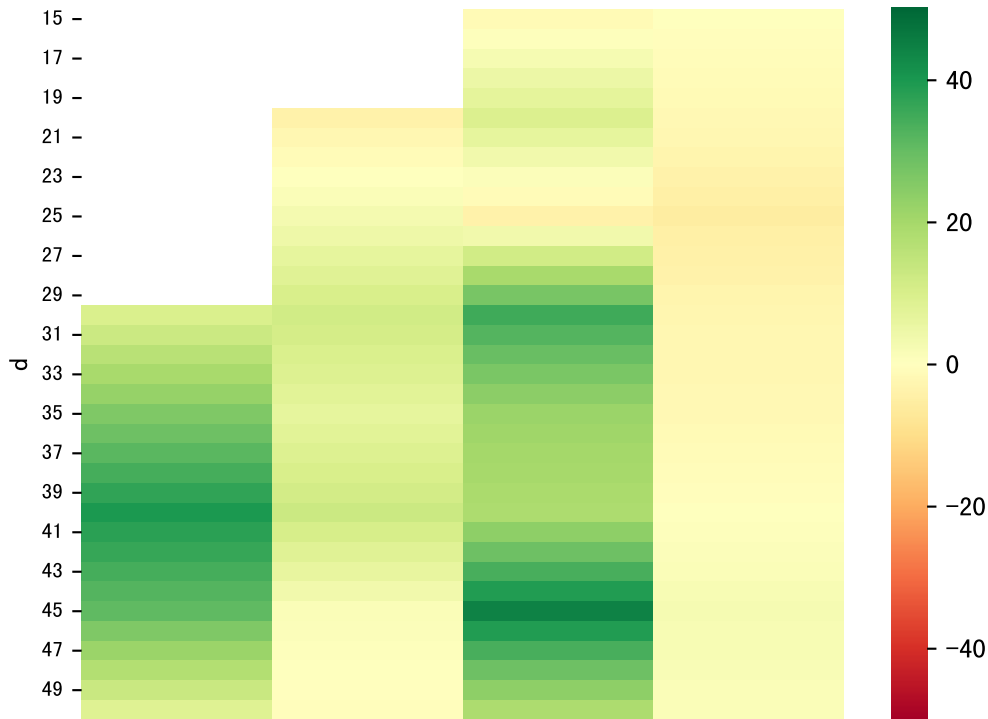


dStH: D_Est_StH



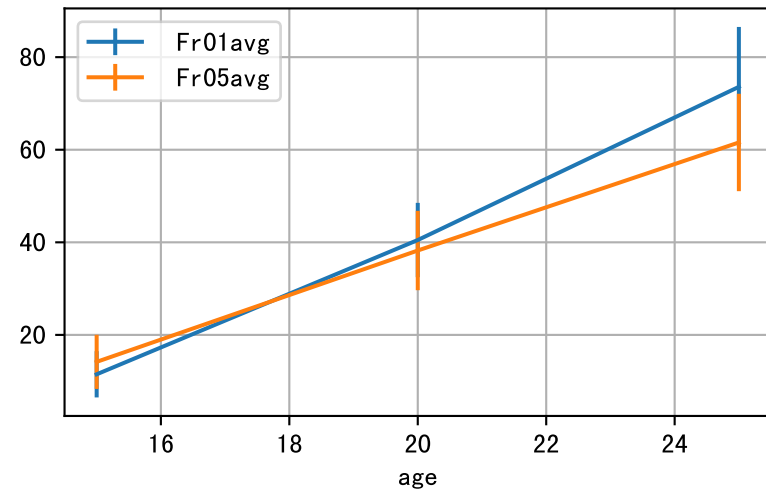
dStH: sfDem



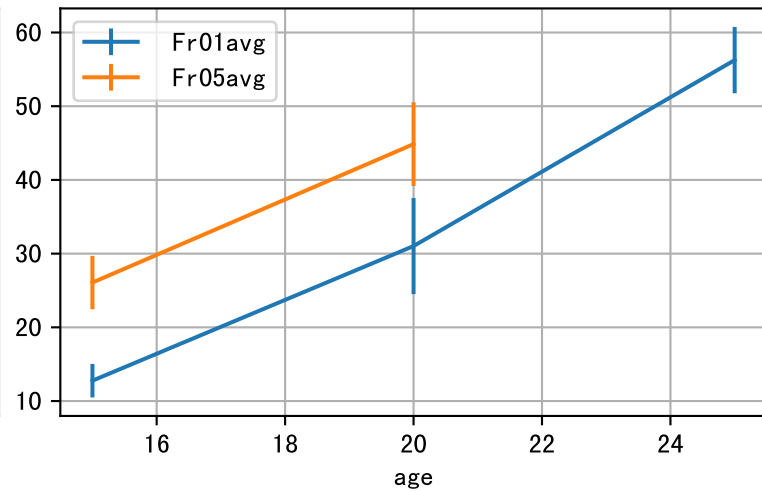


FrV: Fr01 vs Fr05 at each truss

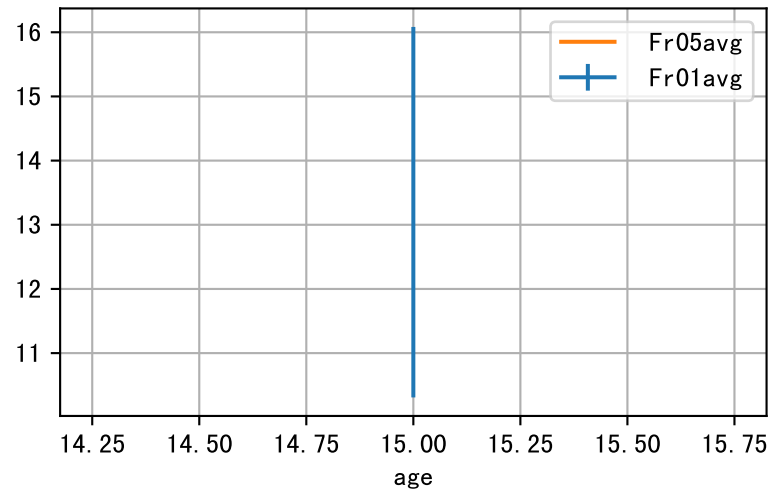
organID=T01



organID=T02

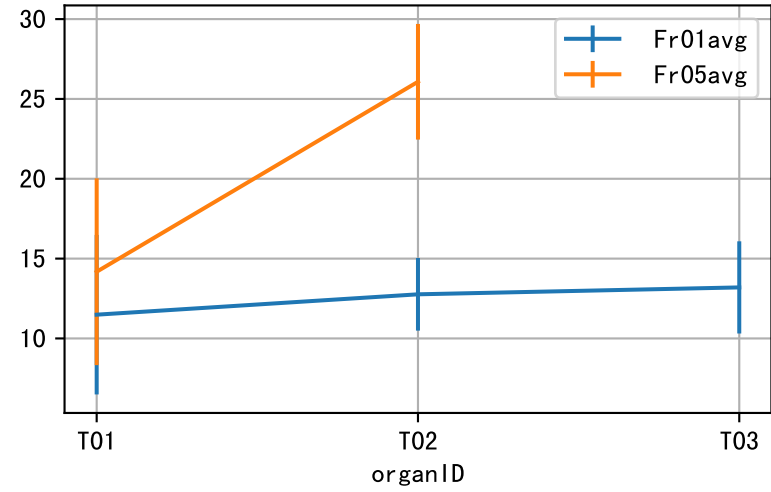


organID=T03

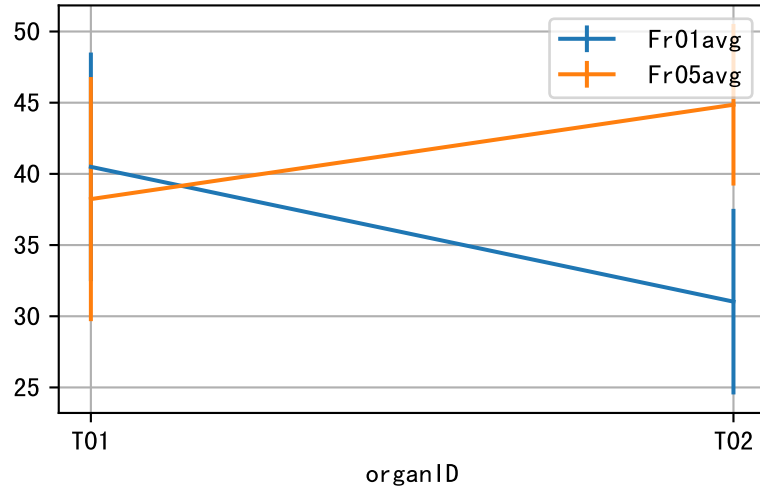


FrV trend at each age

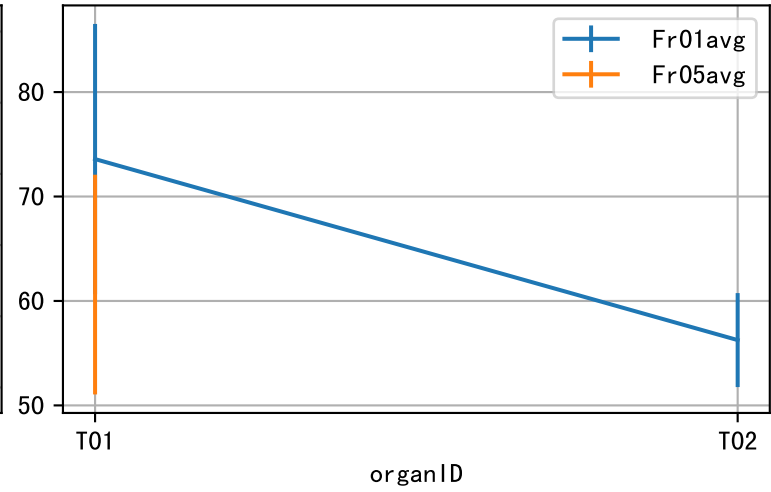
age=15



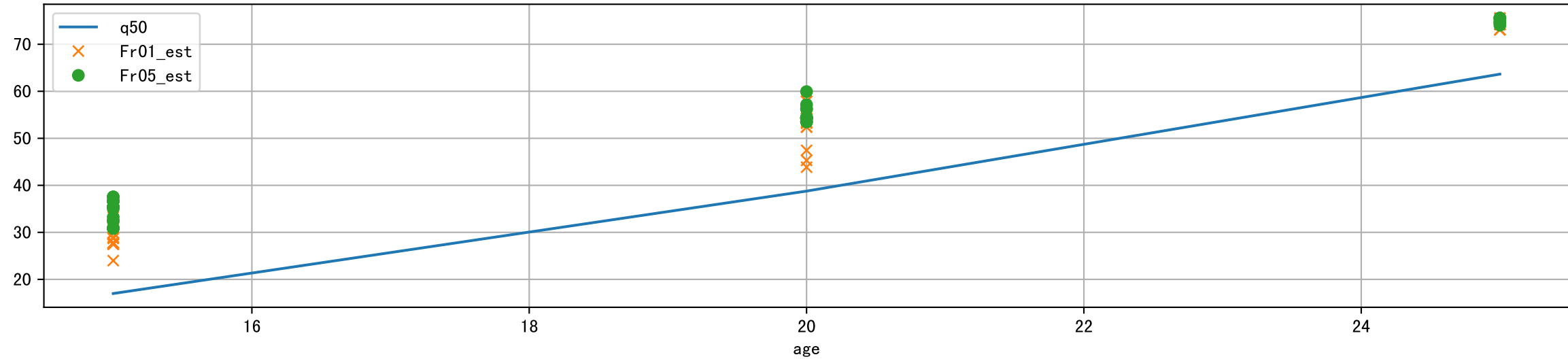
age=20



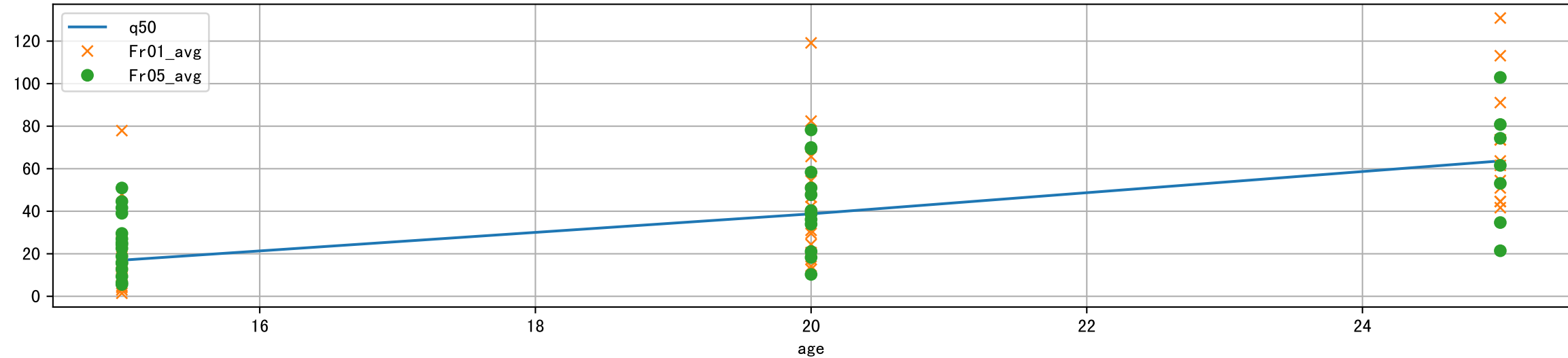
age=25



FrV: model Est vs obsFrV at Q90

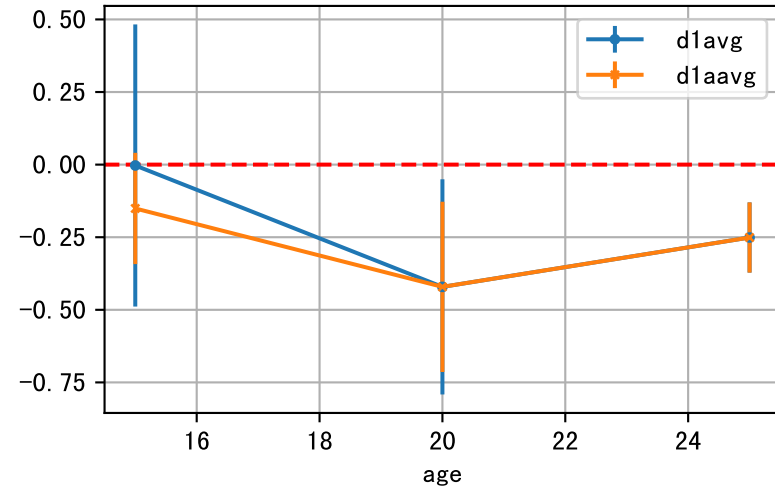


FrV: obsFrV vs obsFrV@Q90

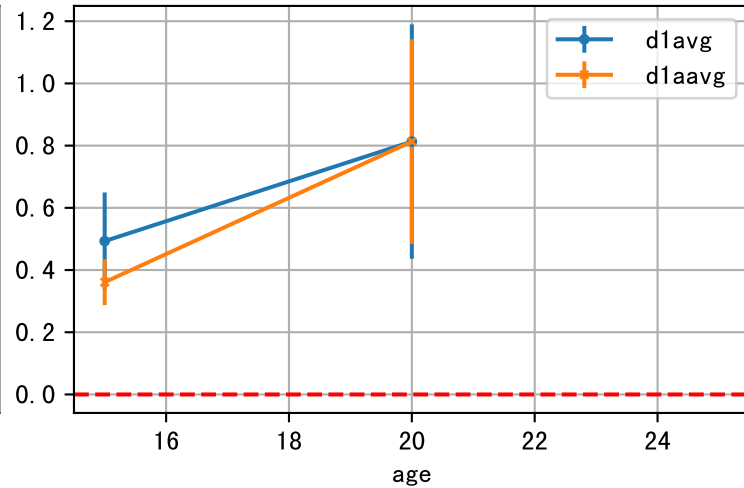


FrV: D_Fr1_FrV

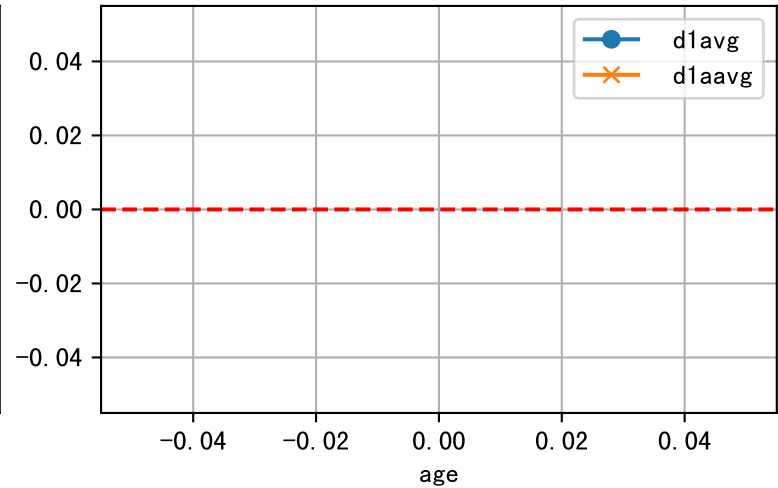
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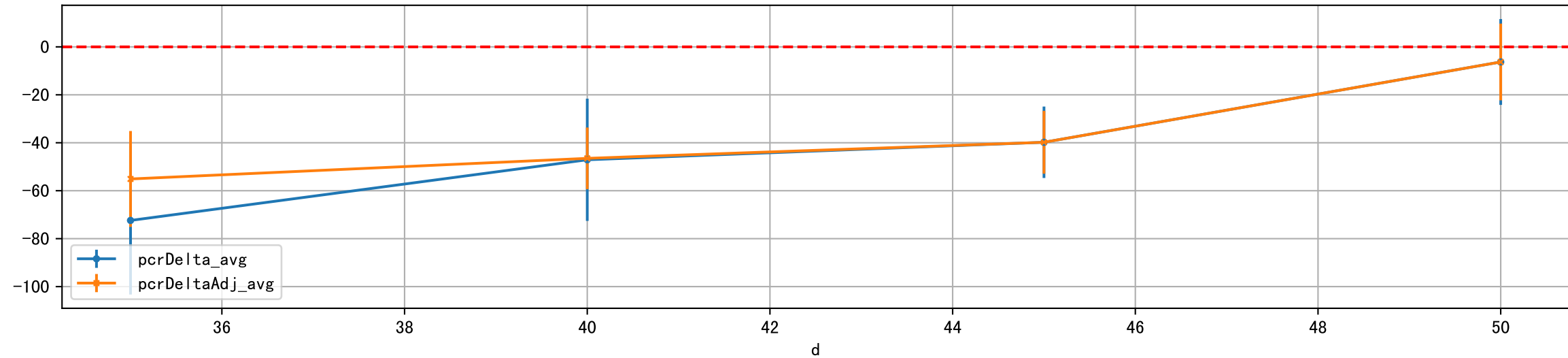
organID=2



organID=3

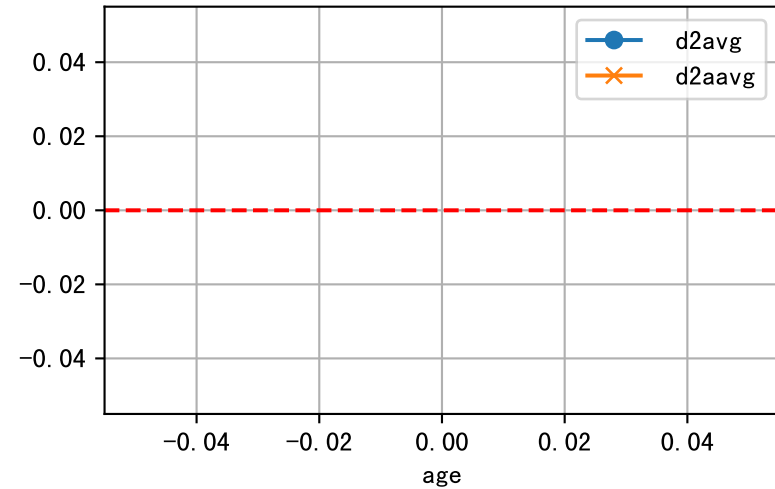


P3 FrV: D_Fr1_FrV

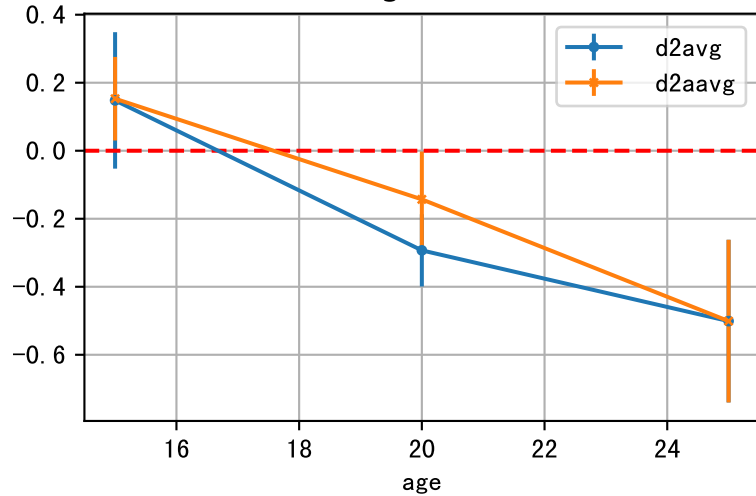


FrV: D_Ts_FrV

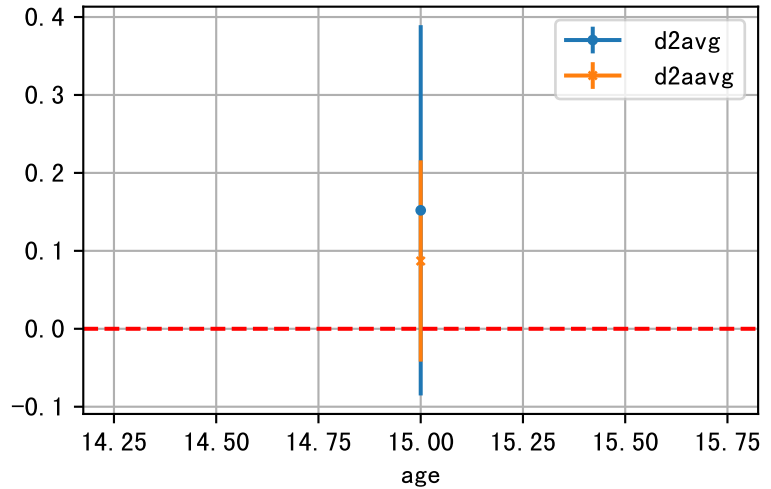
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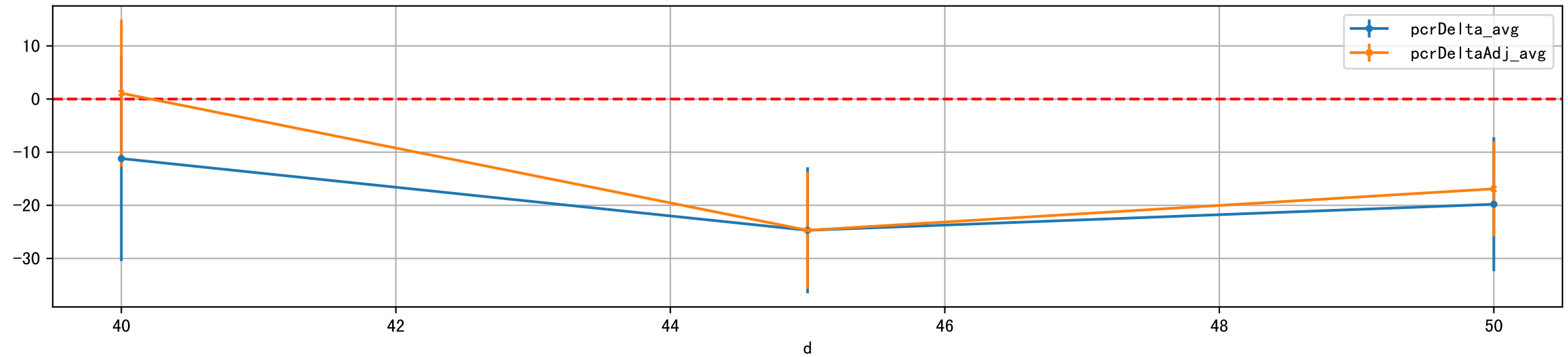
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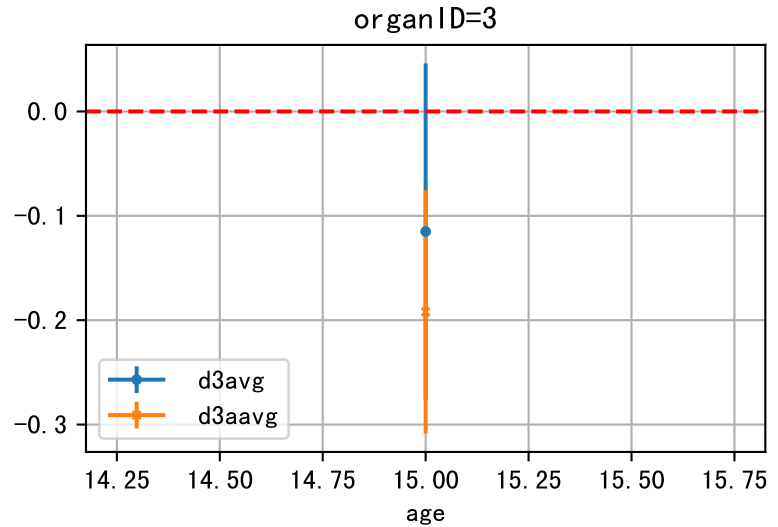
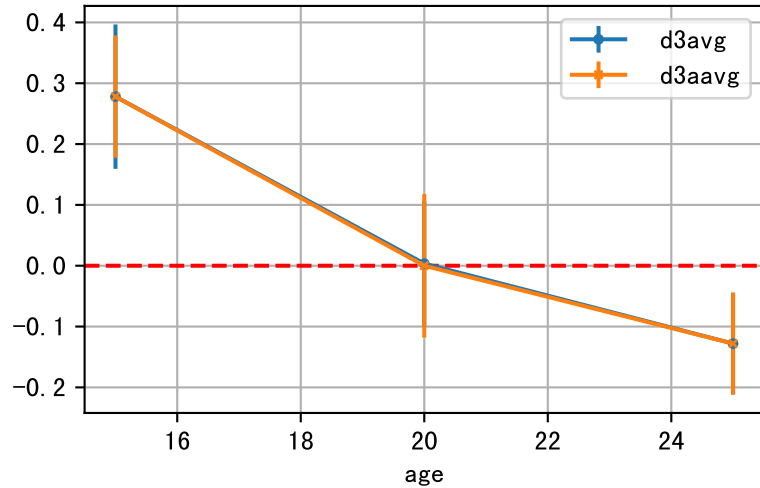
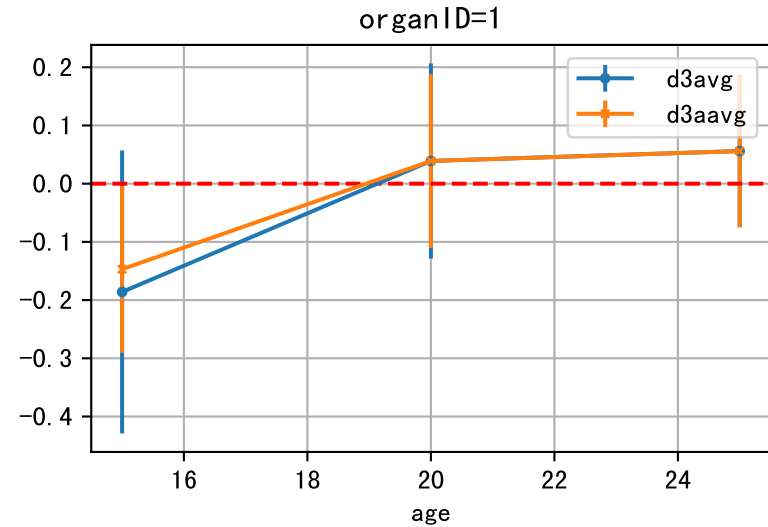
organID=3



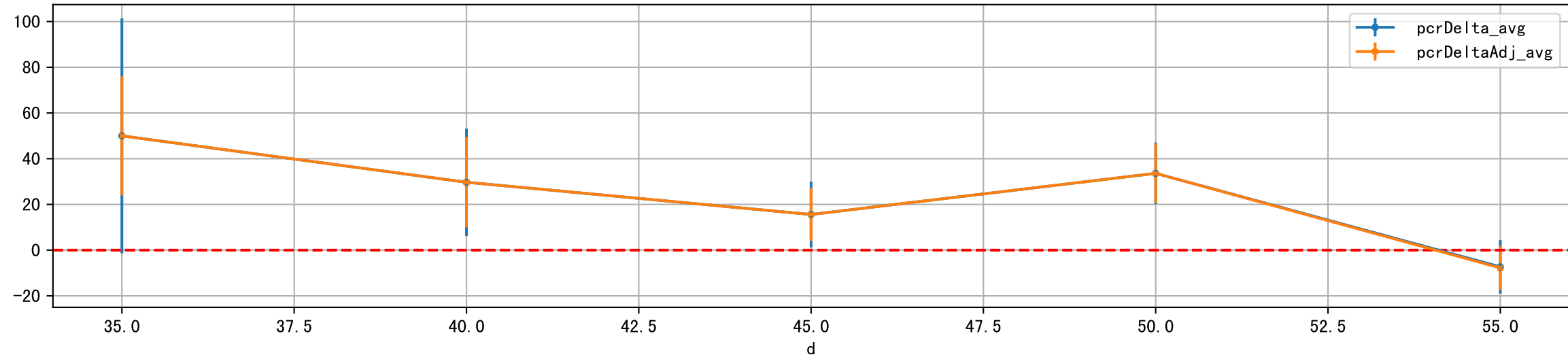
P3 FrV: D_Ts_FrV



FrV: D_Q50_FrV
organID=2



P3 FrV: D_Q50_FrV



FrV: D_Est_FrV
organID=2

