

Phenotype Data Analysis Plots

PhenoData day range = 10 – 46

Analysis cutoff day = 46

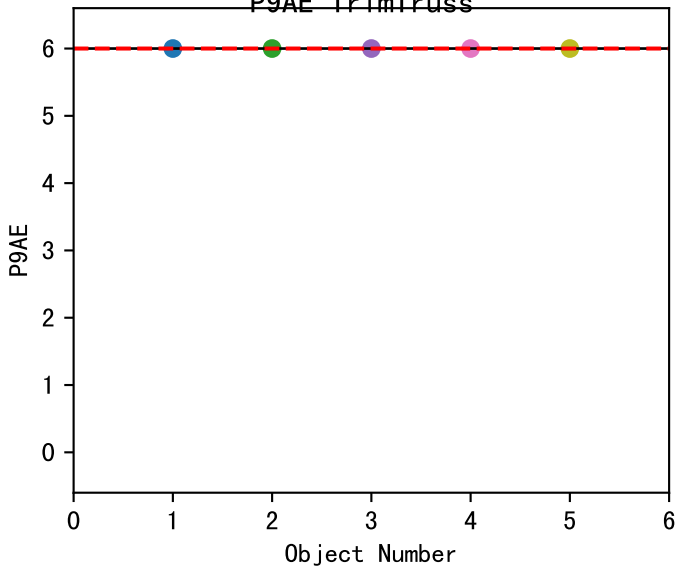
NC11 P9

2025-05-18 (Day 48)

TrussNodeMaxPerStem (Def=6.0 Set=6)

avg1=6.0~0% avg2=na

P9AE TrimTruss



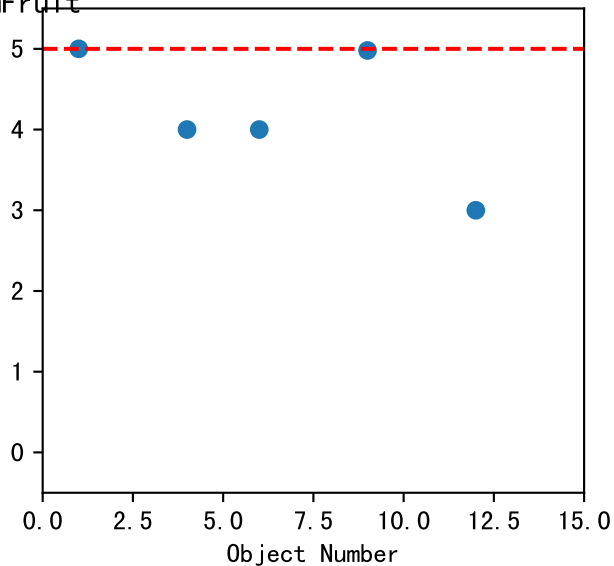
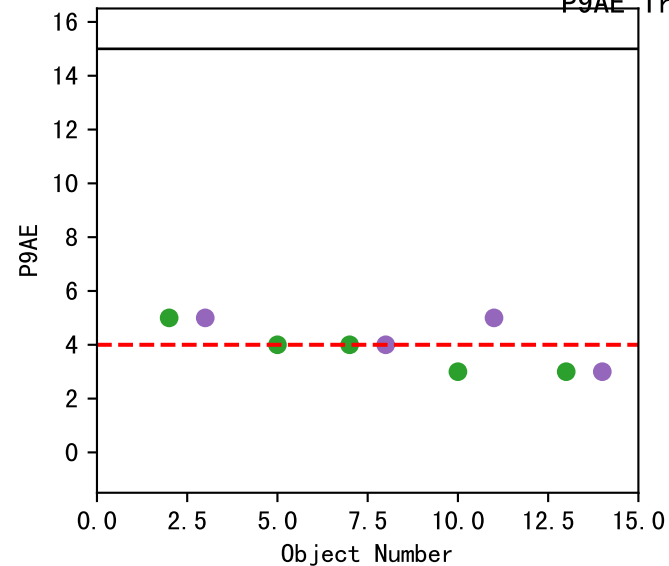
FruitNumAvgPerTruss (Def=15 Set=4)

avg1=4.0~22% avg2=na

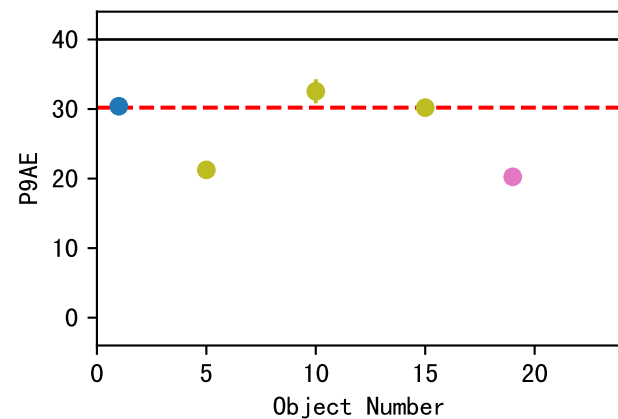
P9AE TrimFruit

FruitNumMaxPerTruss (Def=na Set=5)

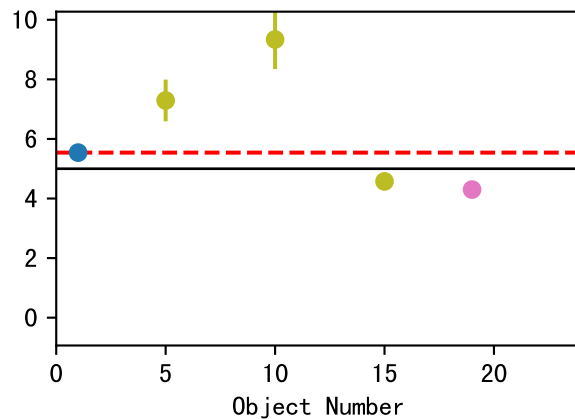
avg1=5.0~17% avg2=na



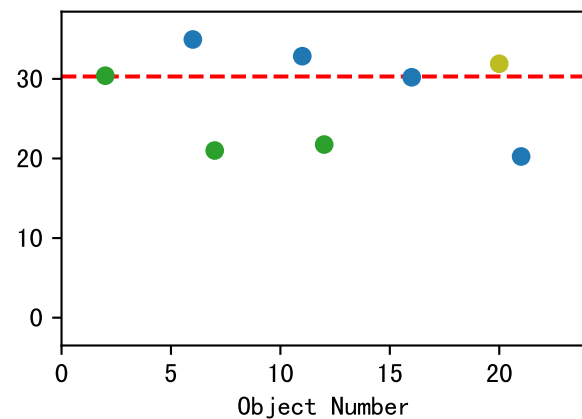
LfL_Q90AbsY (Def=40 Set=30.2)
avg1=30.2~19% avg2=na



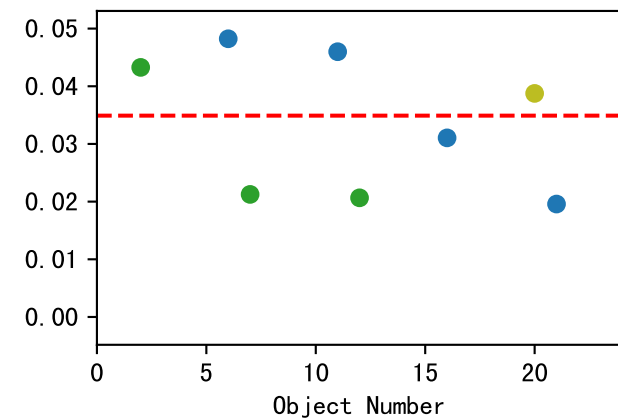
NdL_Q90AbsY (Def=5 Set=5.54)
avg1=5.54~38% avg2=na



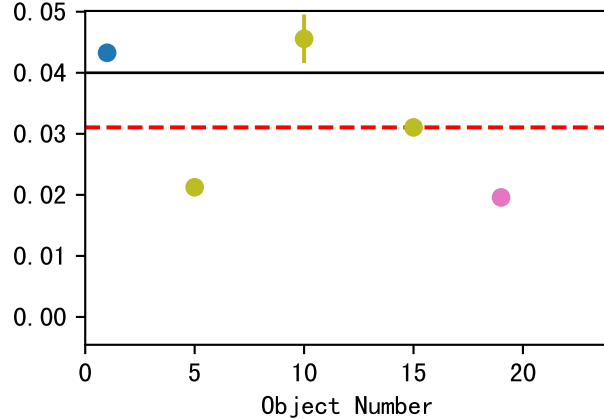
LfL_avgAbsY (Def=na Set=30.3)
avg1=30.3~20% avg2=na



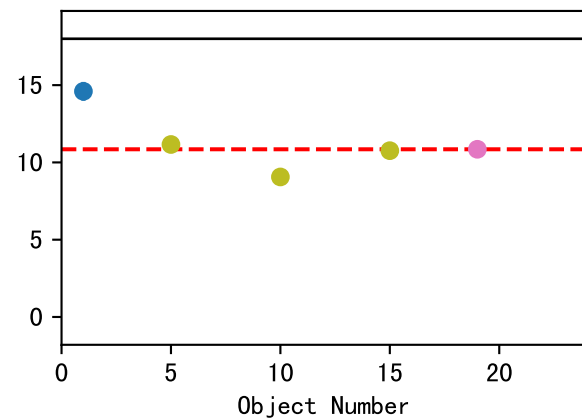
LfA_avgAbsY (Def=na Set=0.03)
avg1=0.03~34% avg2=na



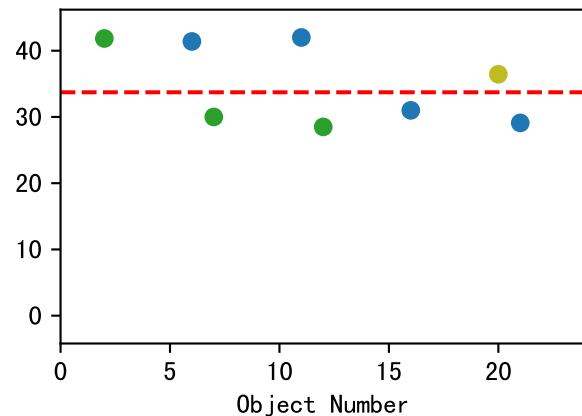
LfA_Q90AbsY (Def=0.04 Set=0.03)
avg1=0.03~39% avg2=na



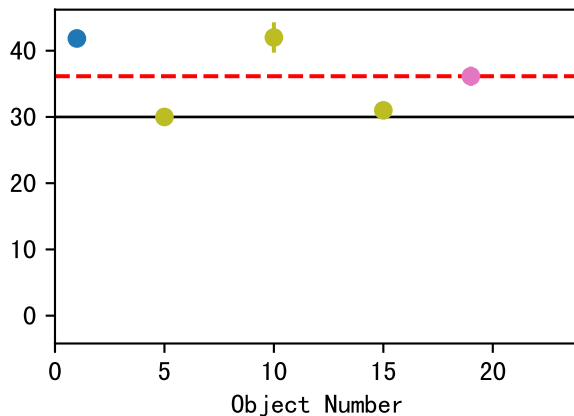
NdD_Q90AbsY (Def=18 Set=10.85)
avg1=10.85~2% avg2=na



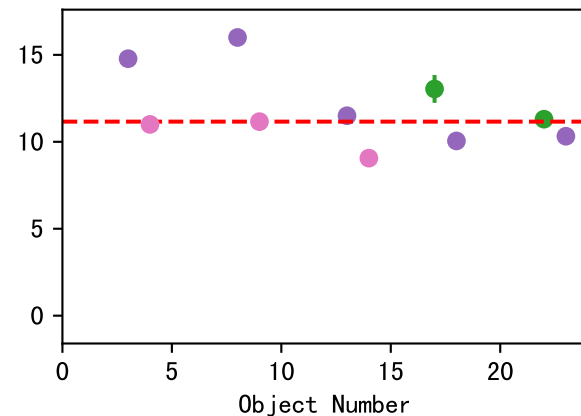
LfW_avgAbsY (Def=na Set=33.73)
avg1=33.73~18% avg2=na



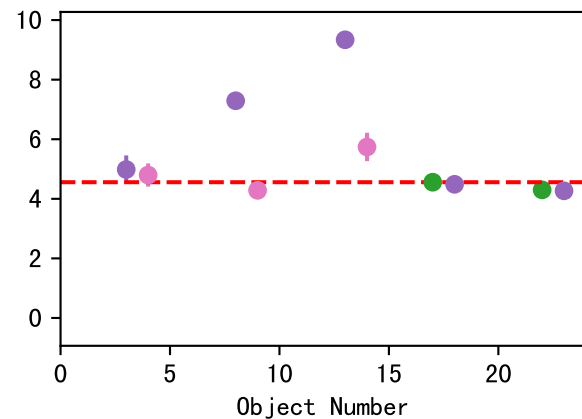
LfW_Q90AbsY (Def=30 Set=36.15)
avg1=36.15~18% avg2=na



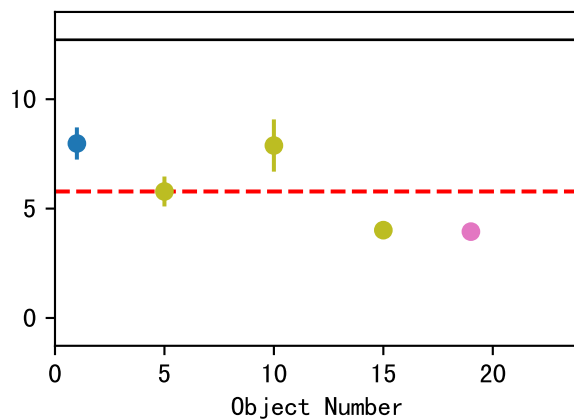
NdD_avgAbsY (Def=na Set=11.16)
avg1=11.16~15% avg2=na



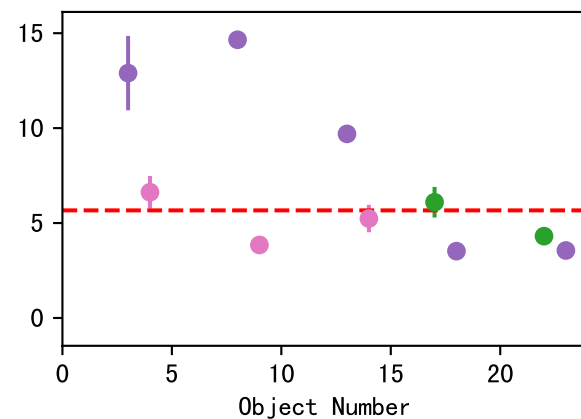
NdL_avgAbsY (Def=na Set=4.56)
avg1=4.56~22% avg2=na



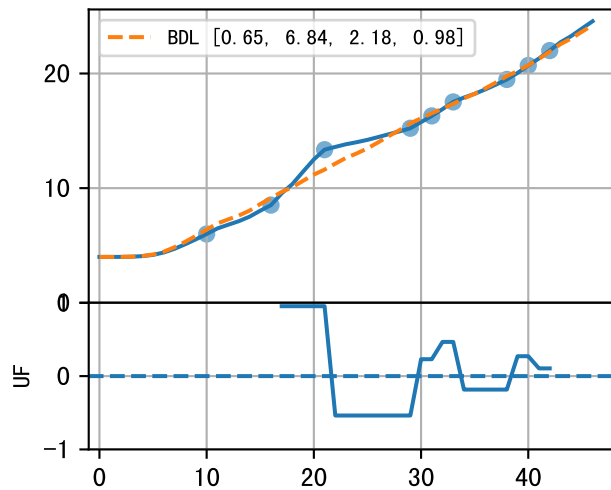
NdV_Q90AbsY (Def=12.72 Set=5.78)
avg1=5.78~34% avg2=na



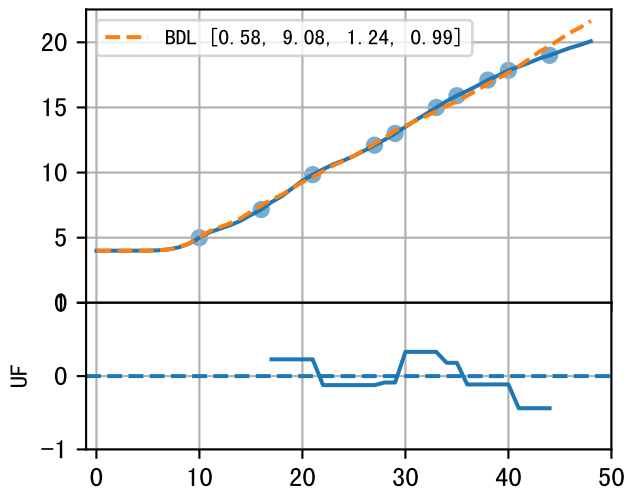
NdV_avgAbsY (Def=na Set=5.67)
avg1=5.67~71% avg2=na



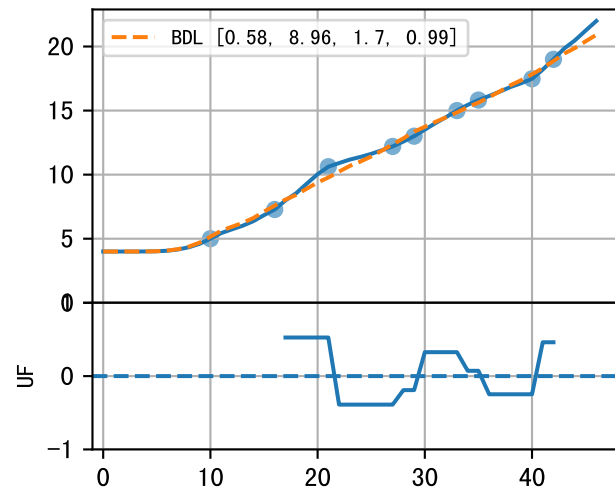
P9AE-065-3 (fit failed)



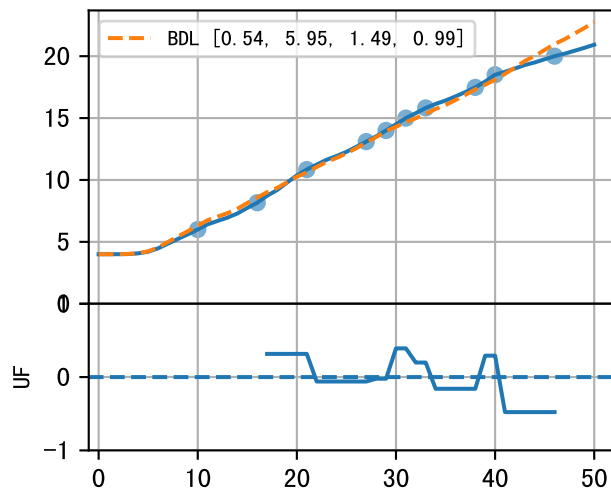
P9AE-077-12 (fit failed)



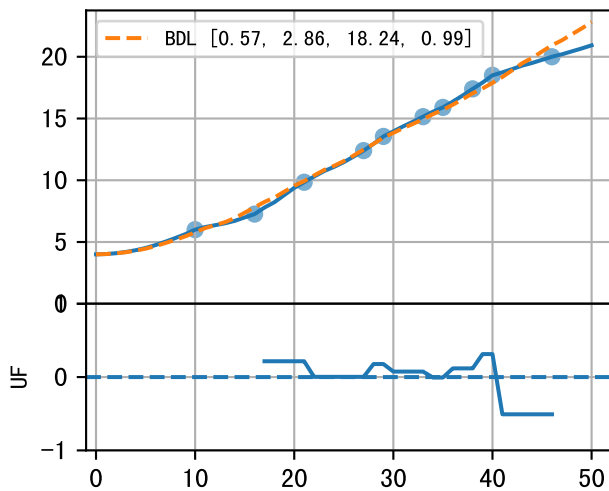
P9AE-089-25 (fit failed)



P9AE-100-19 (fit failed)



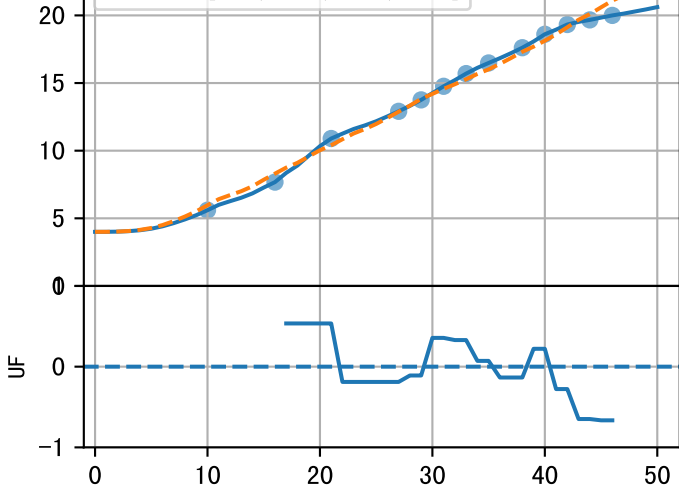
P9AE-111-7 (fit failed)



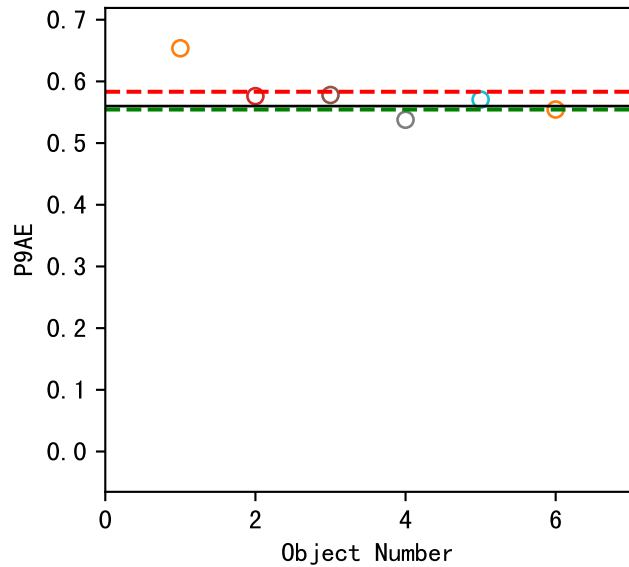
P9AEavg (fit failed)

NdN

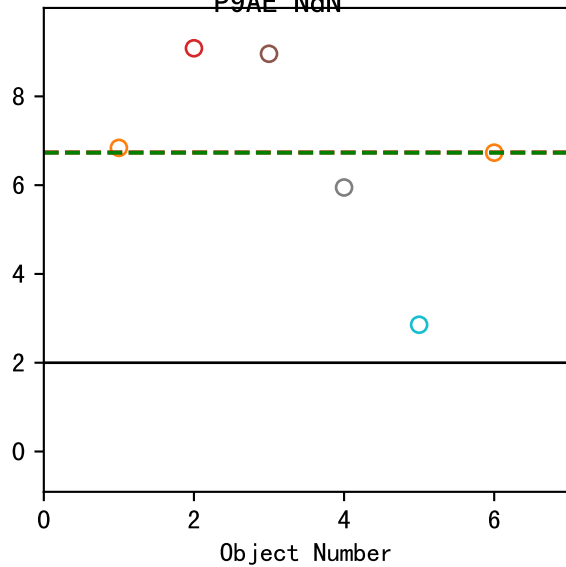
BDL [0.55, 6.73, 4.27, 0.99]



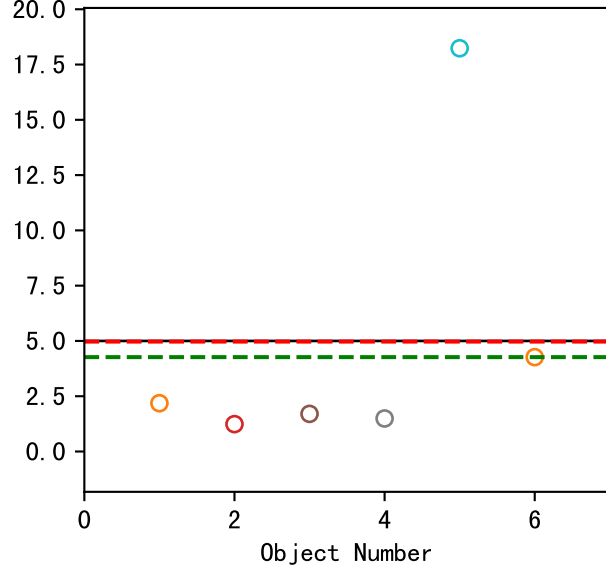
a (Def=0.56 Set=0.55)
avg1=0.58(fail) avg2=0.55



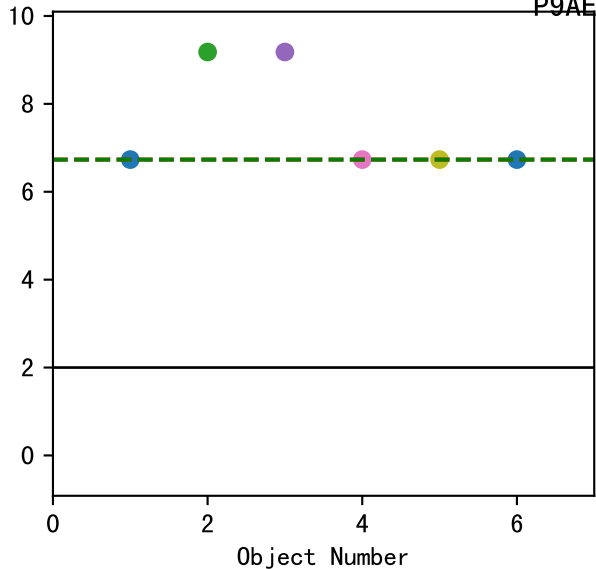
dm (Def=2 Set=6.73)
avg1=6.74(fail) avg2=6.73



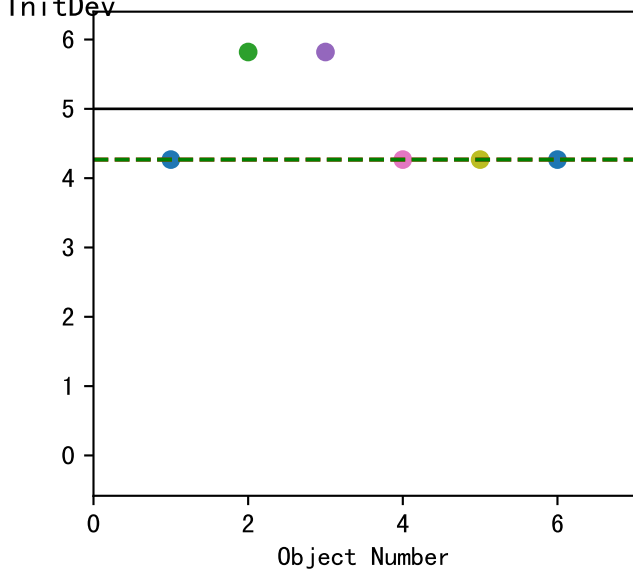
de (Def=5 Set=4.27)
avg1=4.97(fail) avg2=4.27



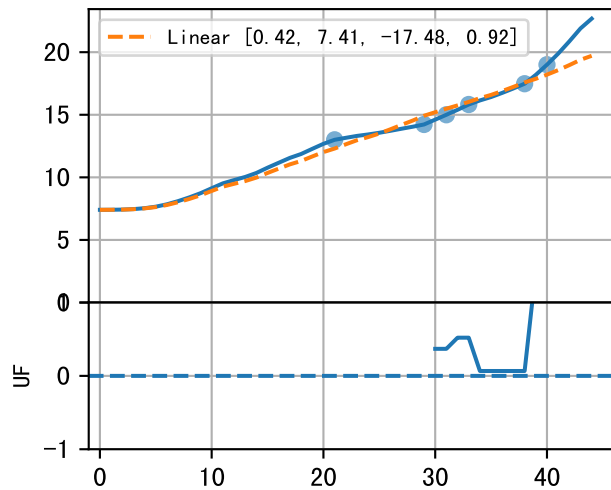
InitDev_dm (Def=2 Set=6.73)
avg1=6.73~20% avg2=6.73



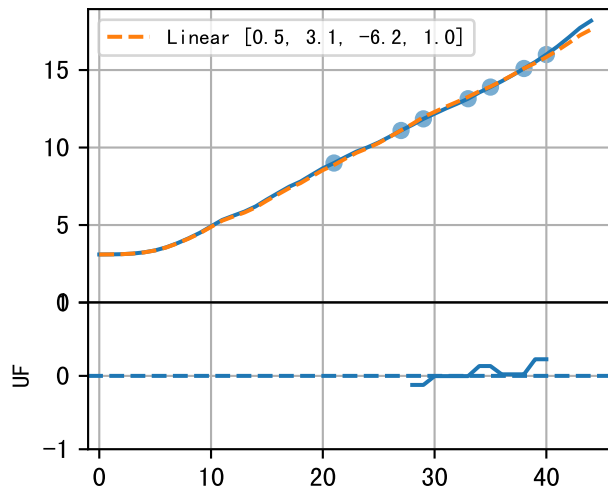
InitDev_de (Def=5 Set=4.27)
avg1=4.27~20% avg2=4.27



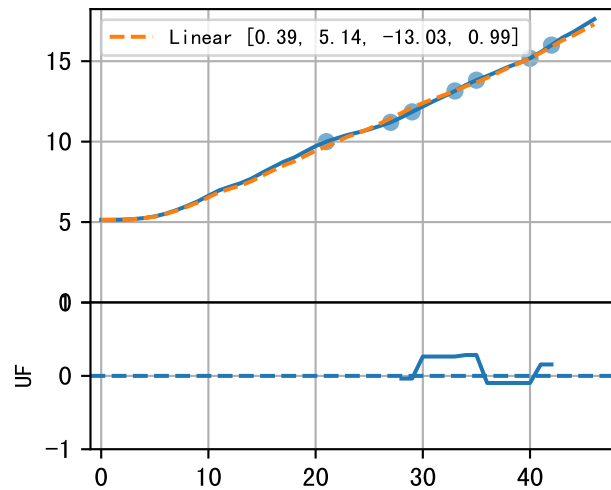
P9AE-065-3



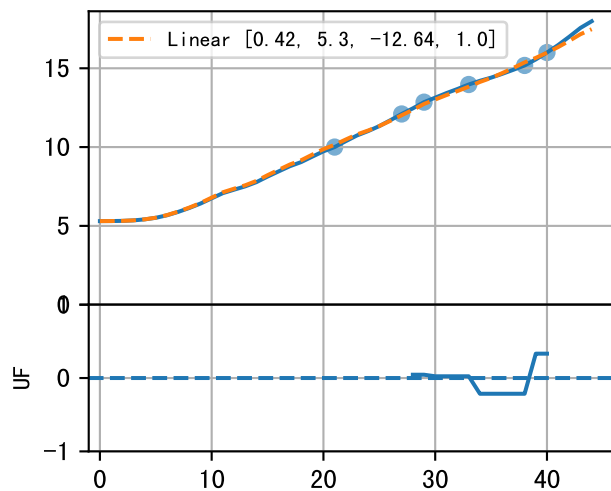
P9AE-077-32



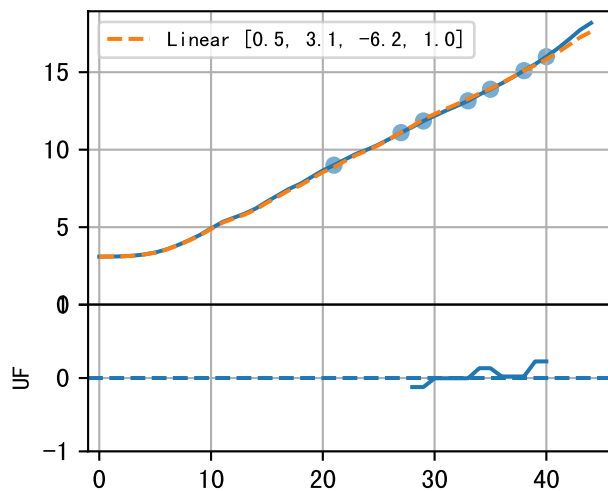
P9AE-089-25



P9AE-100-19



P9AE-111-7



P9AEavg
L_fN

Linear [0.4, 5.59, -13.99, 0.98]

UF

15

10

5

0

0

-1

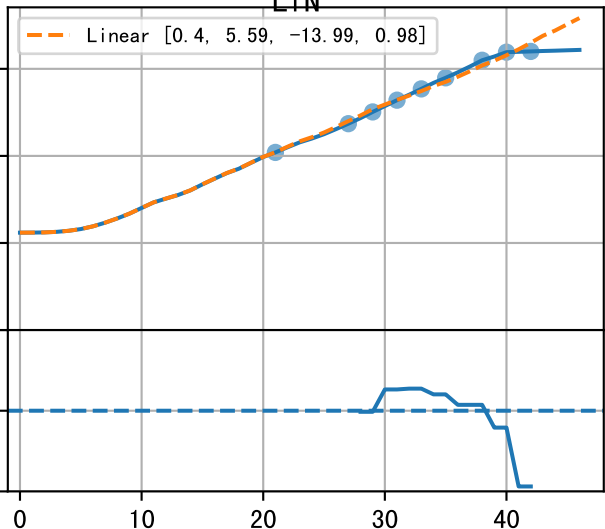
0

10

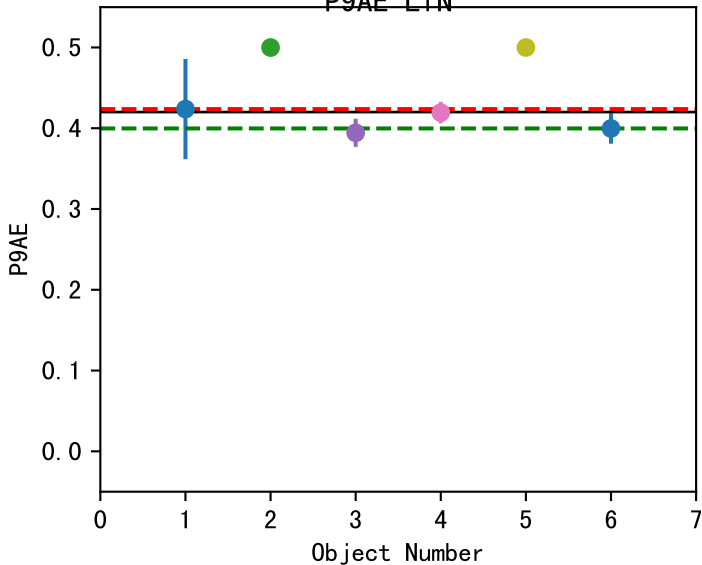
20

30

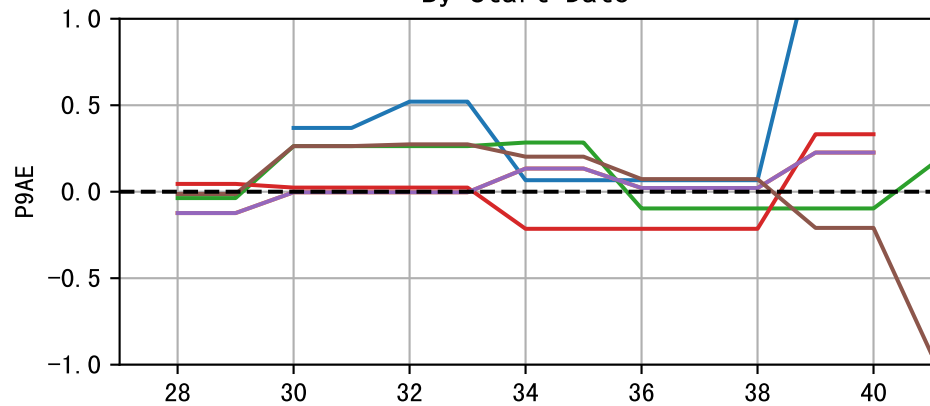
40



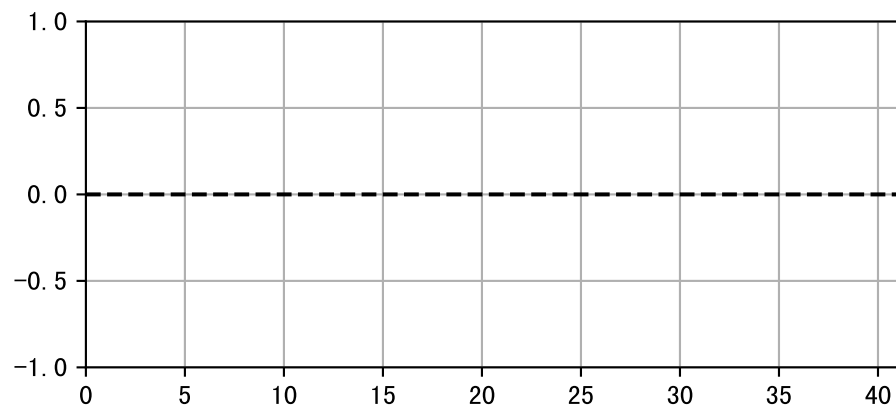
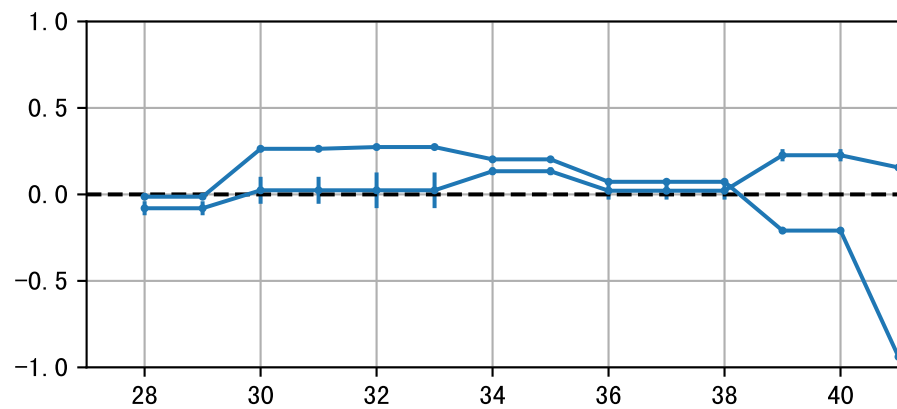
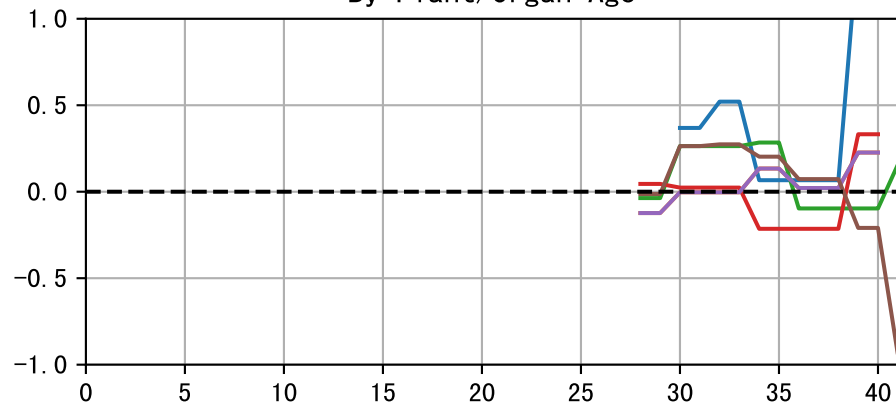
a (Def=0.42 Set=0.4)
avg1=0.42~12% avg2=0.4~11%
P9AE LfN



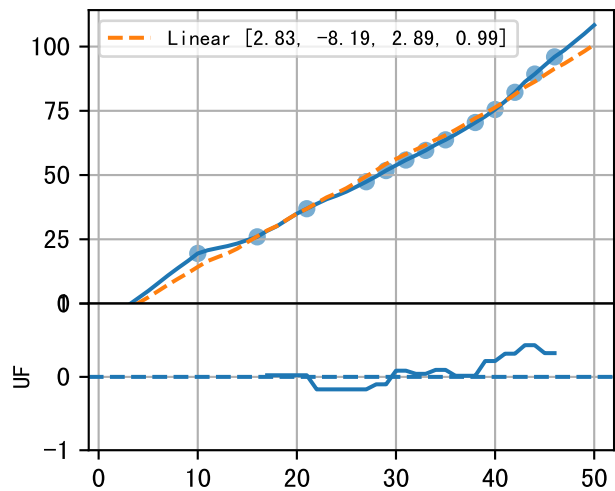
By Start Date



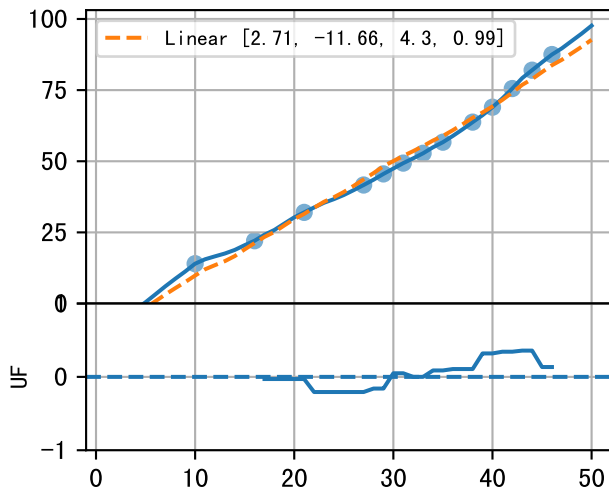
By Plant/Organ Age



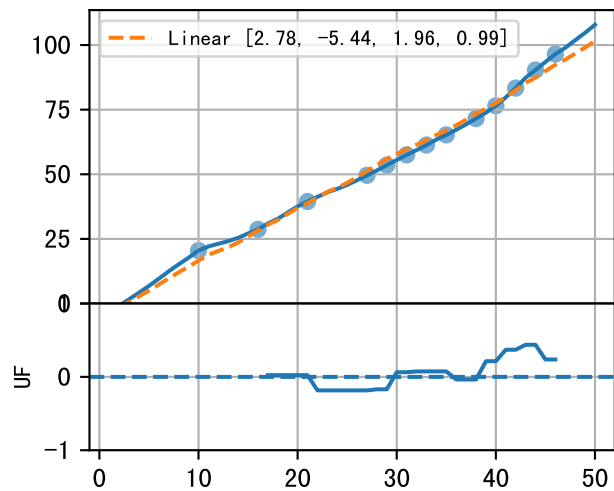
P9AE-065-3



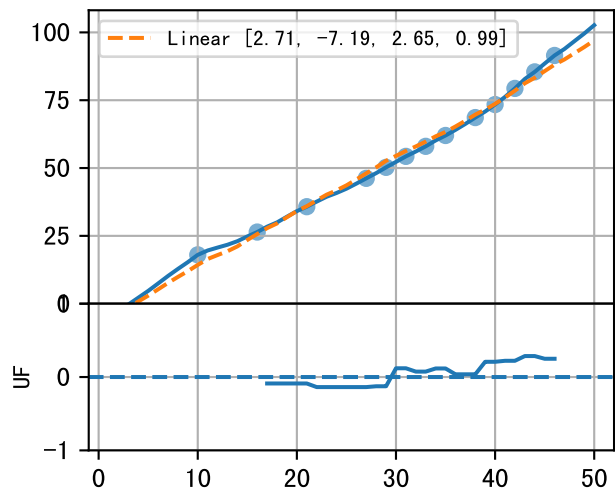
P9AE-077-32



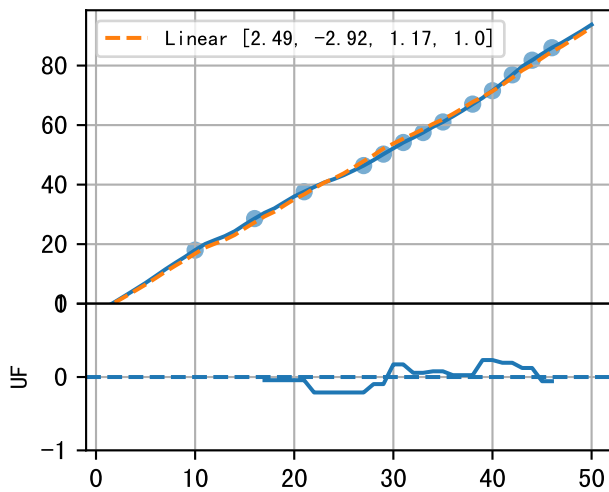
P9AE-089-25



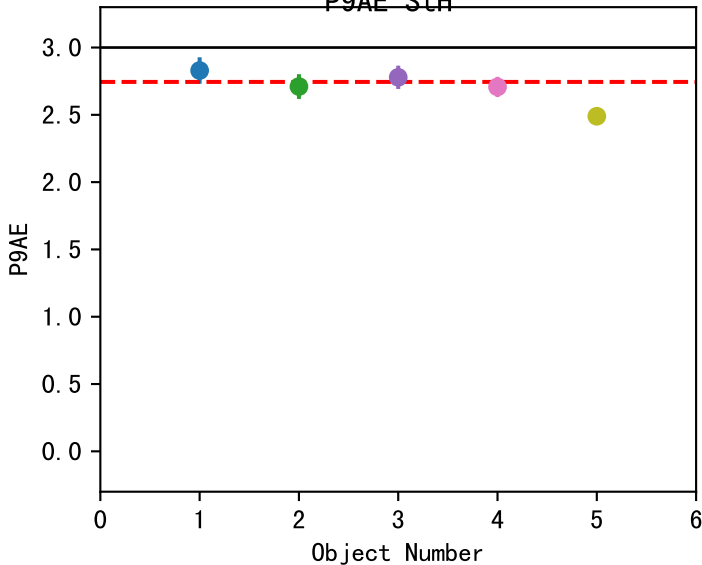
P9AE-100-19



P9AE-111-7

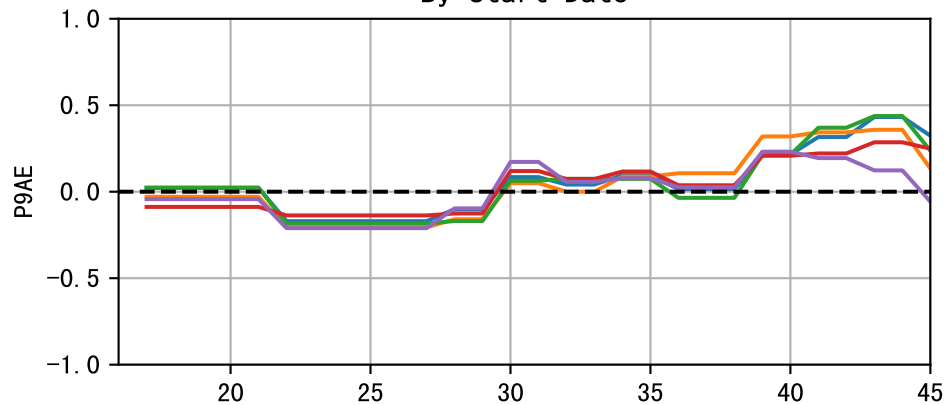


a (Def=3 Set=2.74)
avg1=2.74~2% avg2=na
P9AE StH

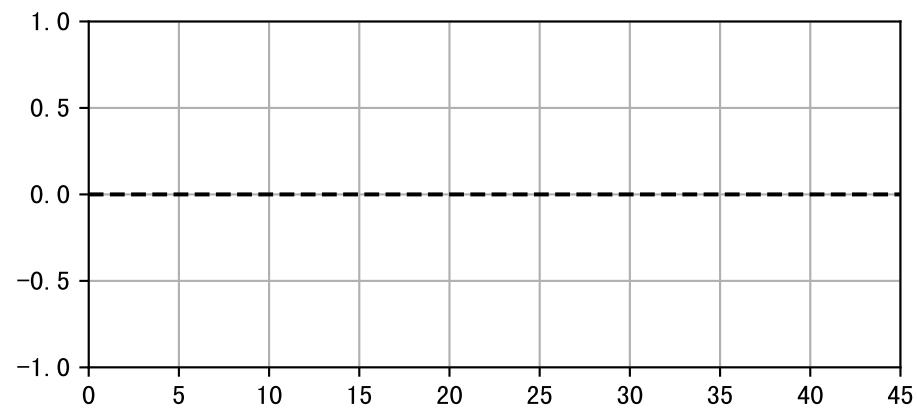
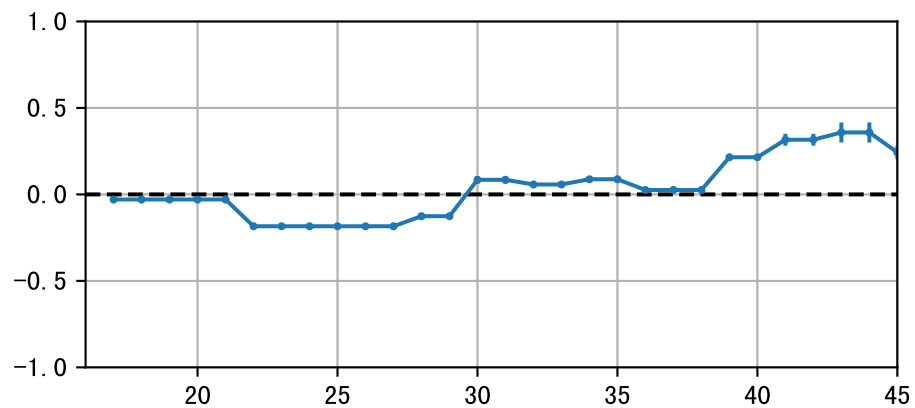
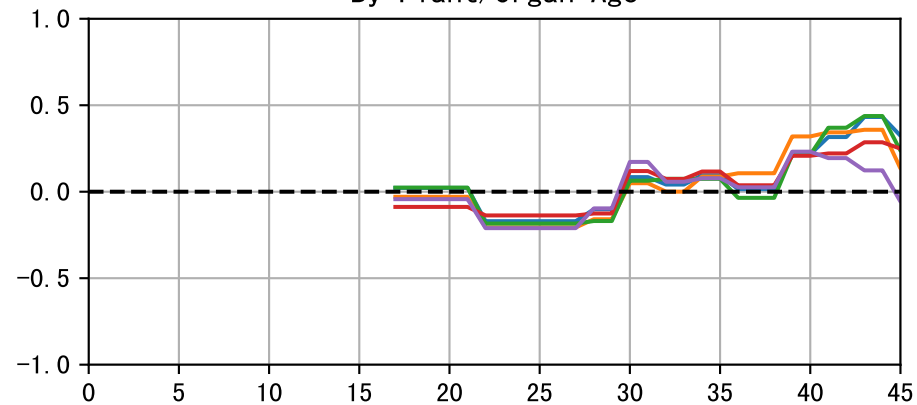


StH

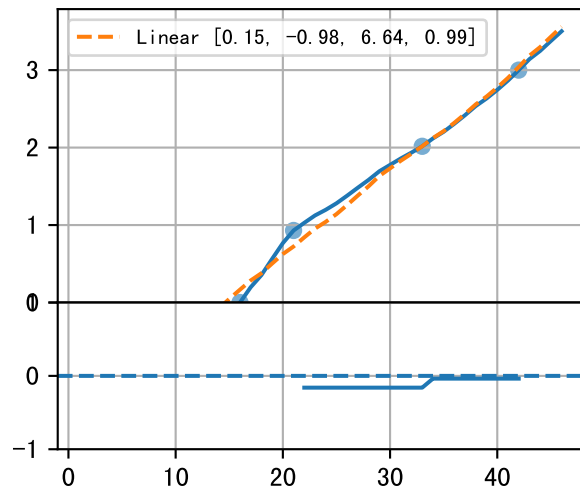
By Start Date



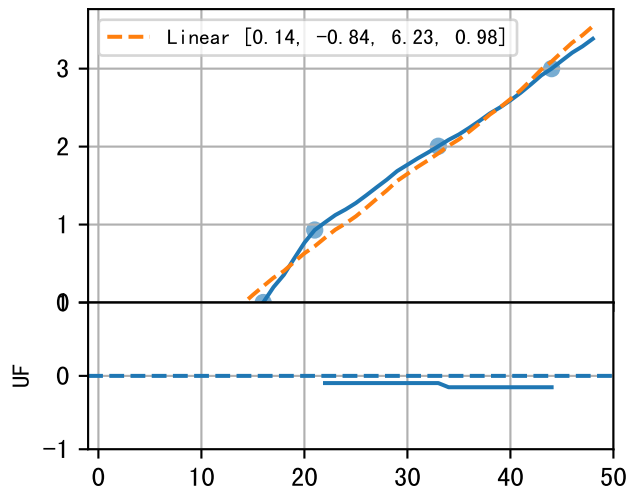
By Plant/Organ Age



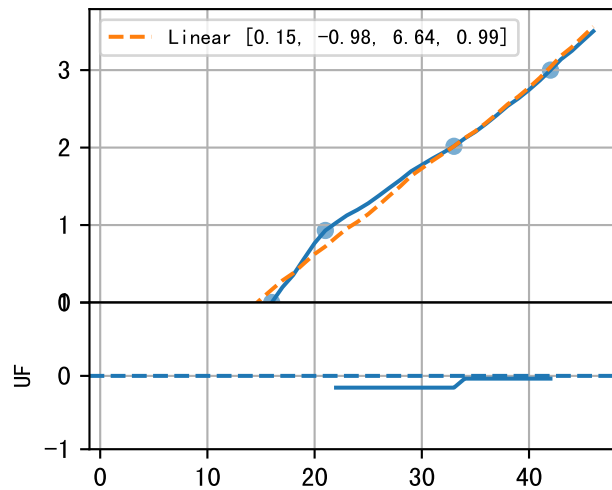
P9AE-065-3



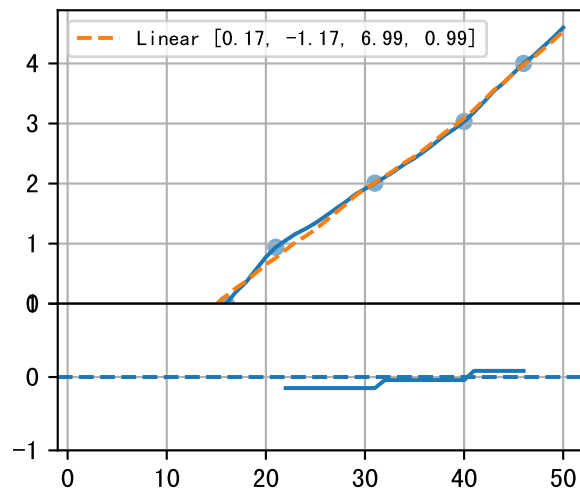
P9AE-077-32



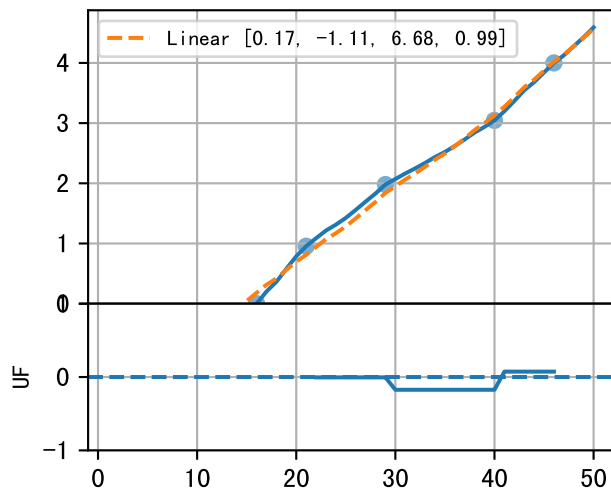
P9AE-089-25



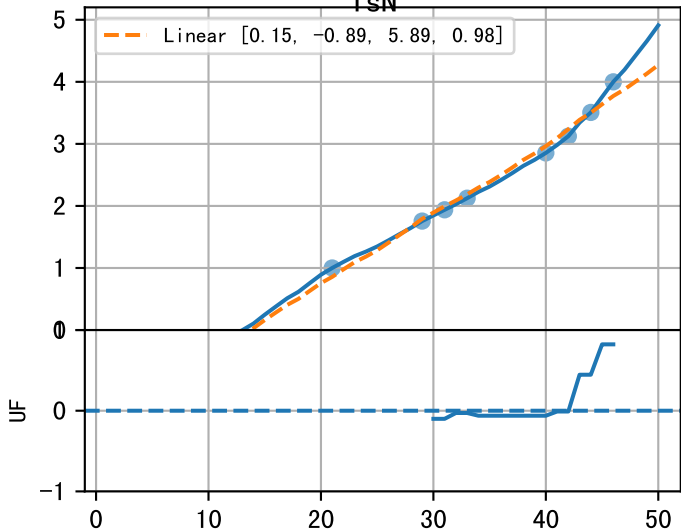
P9AE-100-19



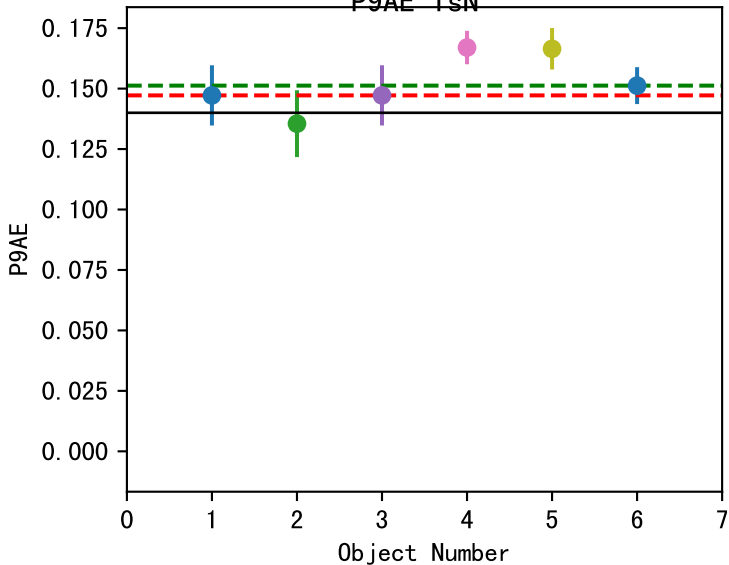
P9AE-111-7



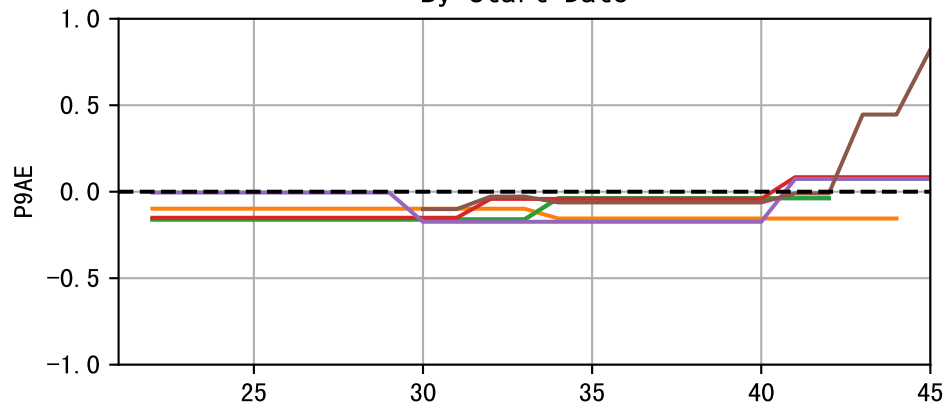
P9AEavg
T_{SN}



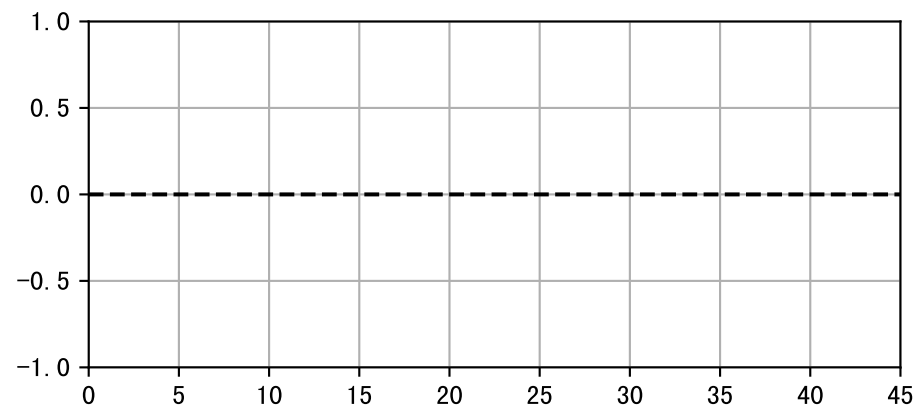
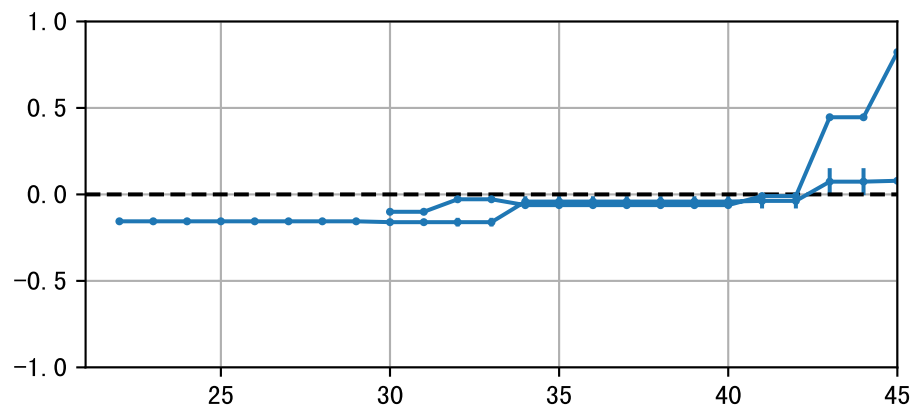
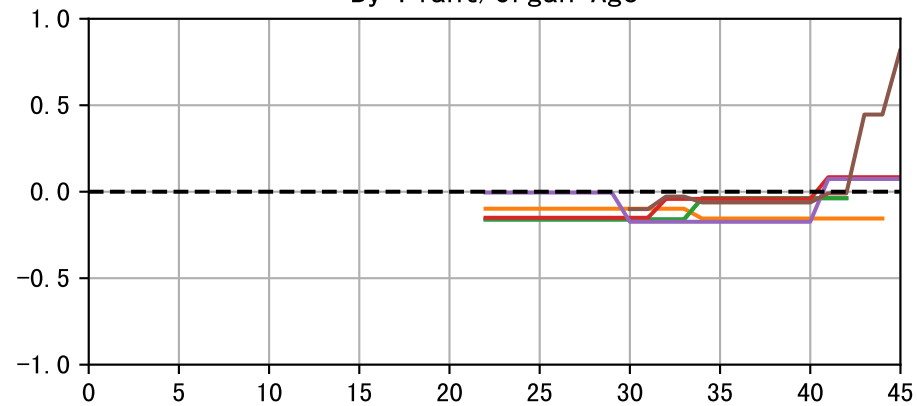
a (Def=0.14 Set=0.15)
avg1=0.15~9% avg2=0.15~10%
P9AE TSN



By Start Date

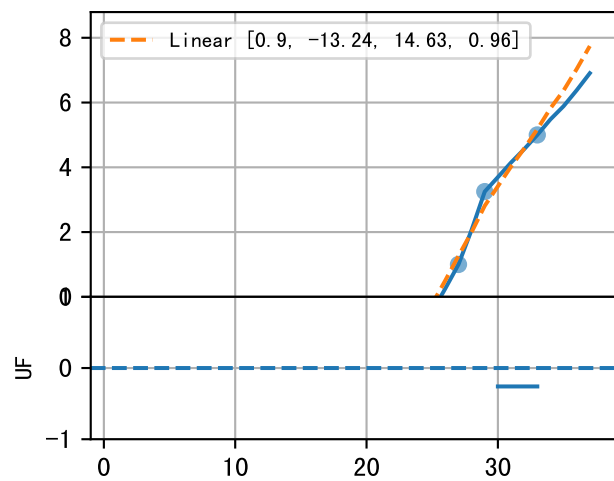


By Plant/Organ Age

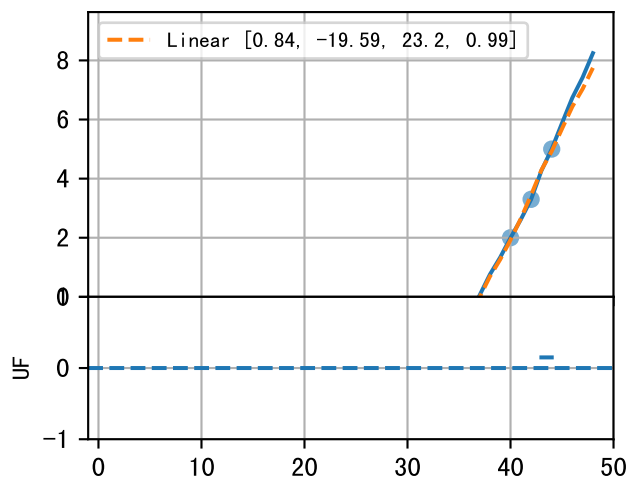


ErN

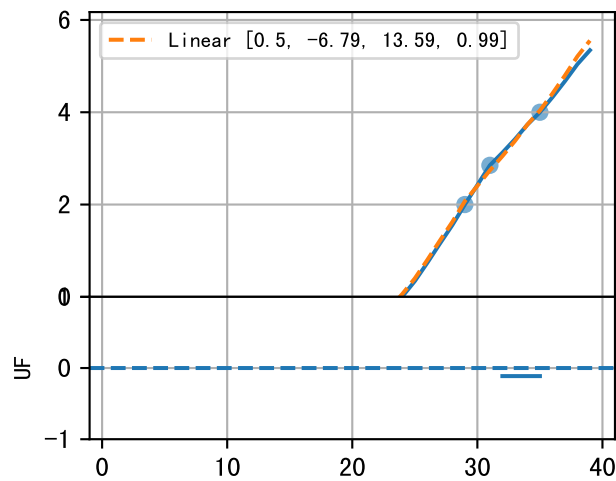
P9AE-065-3T1



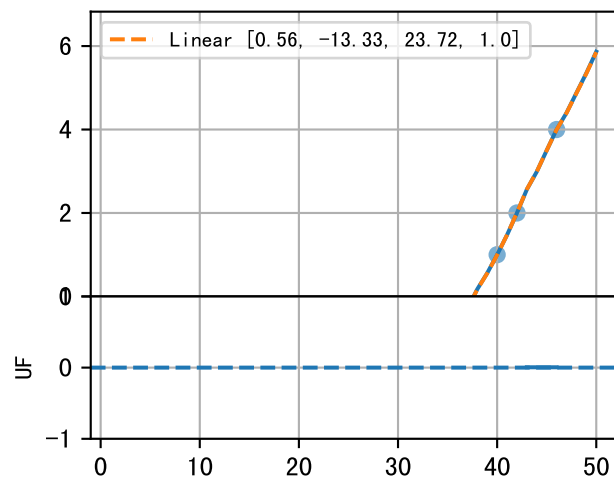
P9AE-065-3T2



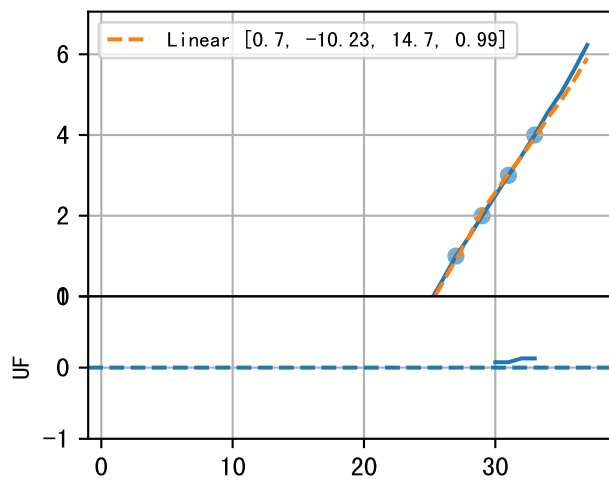
P9AE-077-32T1



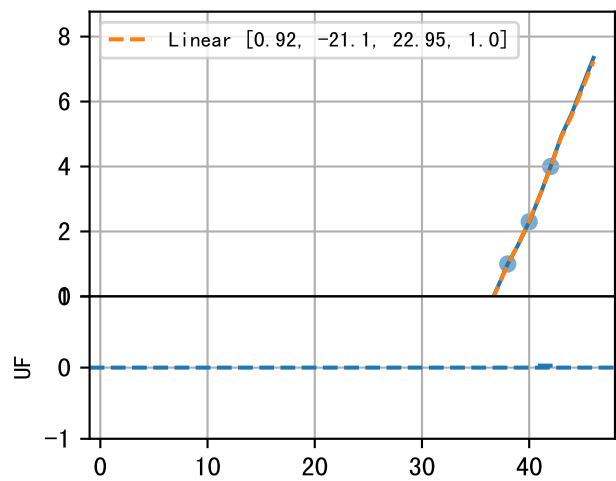
P9AE-077-32T2



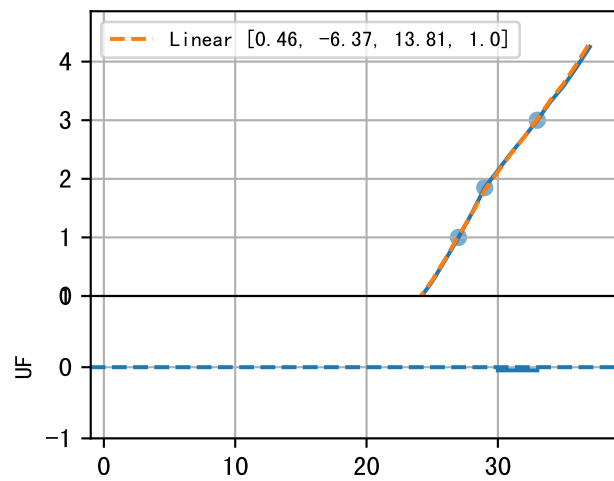
P9AE-089-25T1



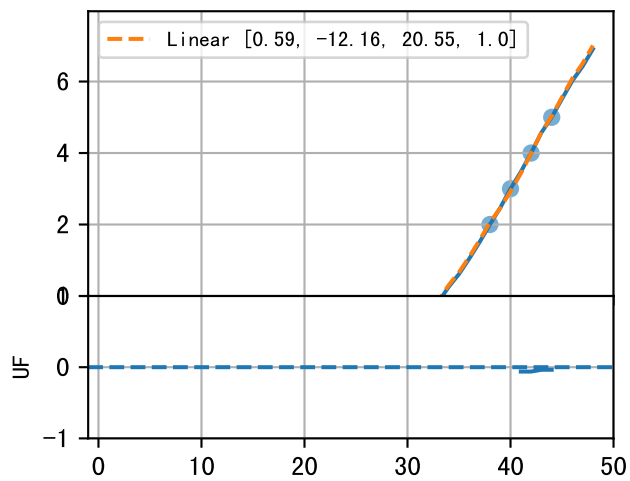
P9AE-089-25T2



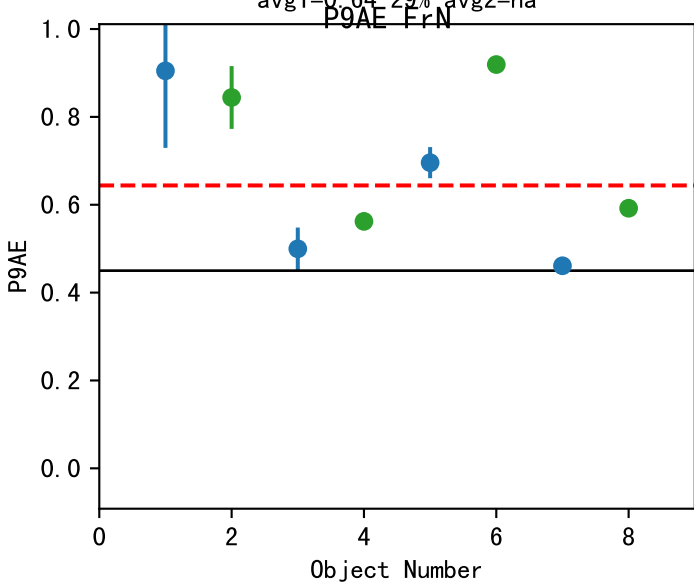
P9AE-100-19T1



P9AE-100-19T2

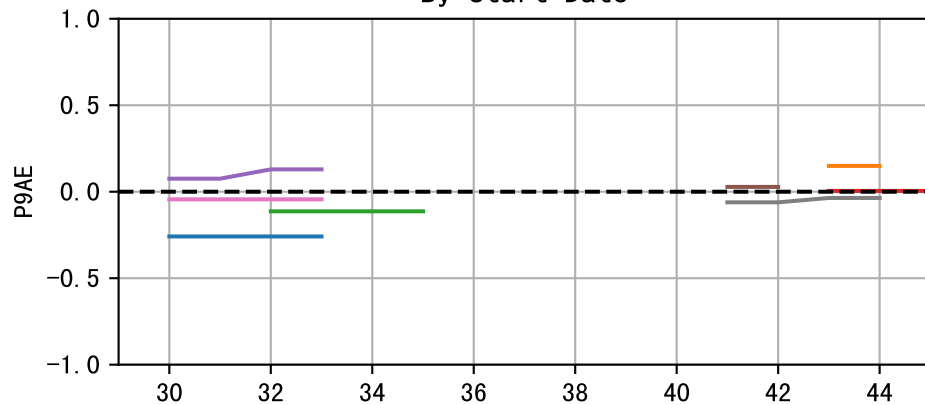


a (Def=0.45 Set=0.64)
avg1=0.64~29% avg2=na

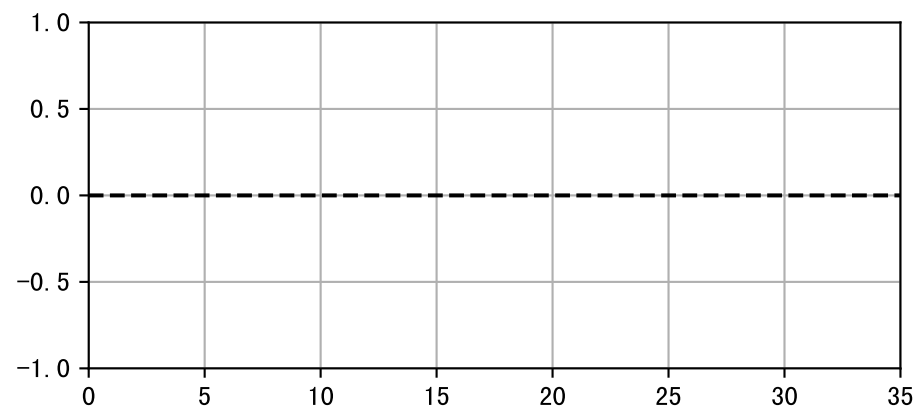
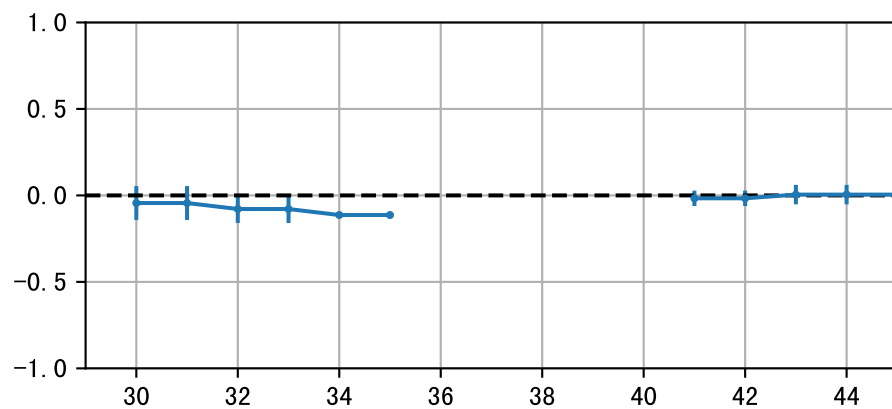
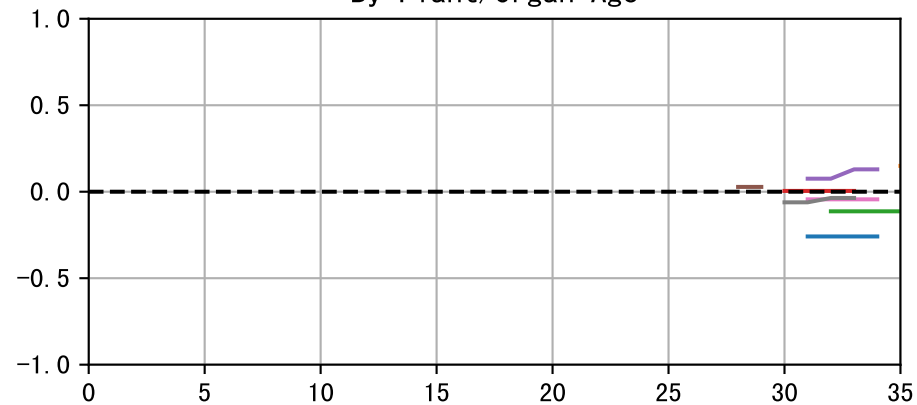


FrN

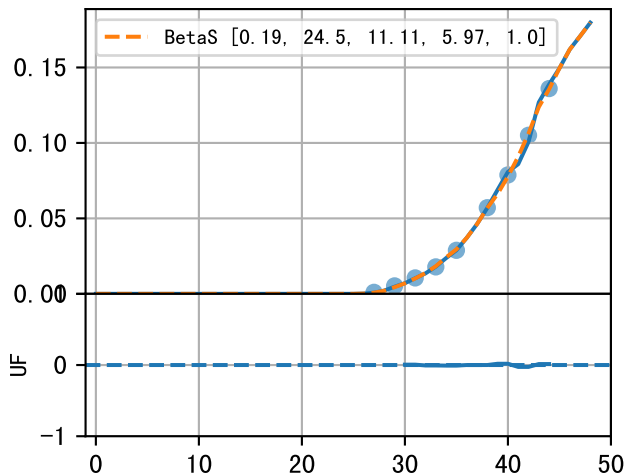
By Start Date



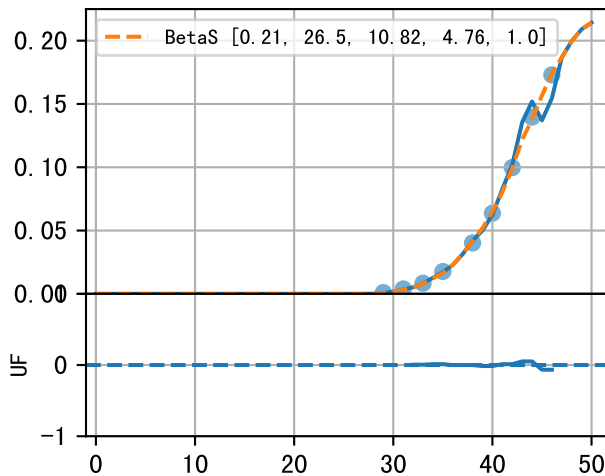
By Plant/Organ Age



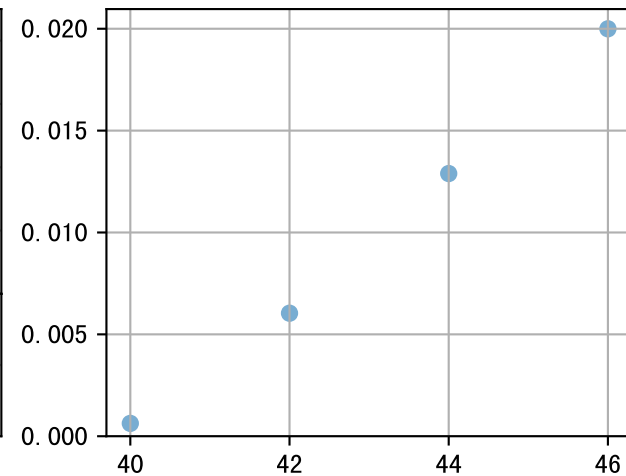
P9AE-065-3T1Fr1



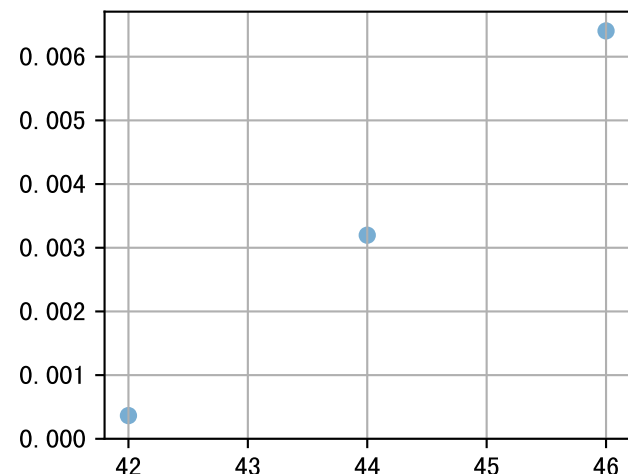
P9AE-065-3T1Fr5



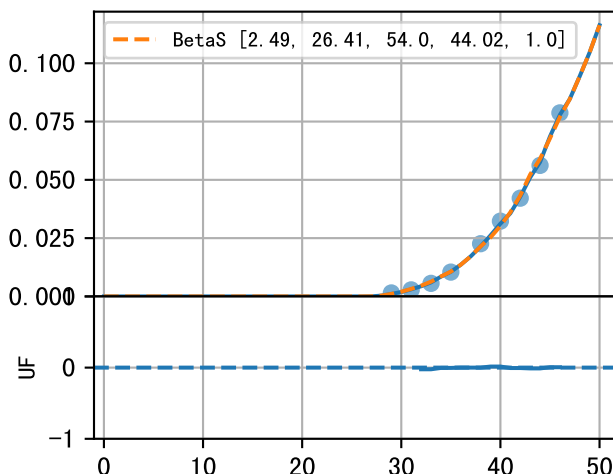
P9AE-065-3T2Fr1 (fit failed)



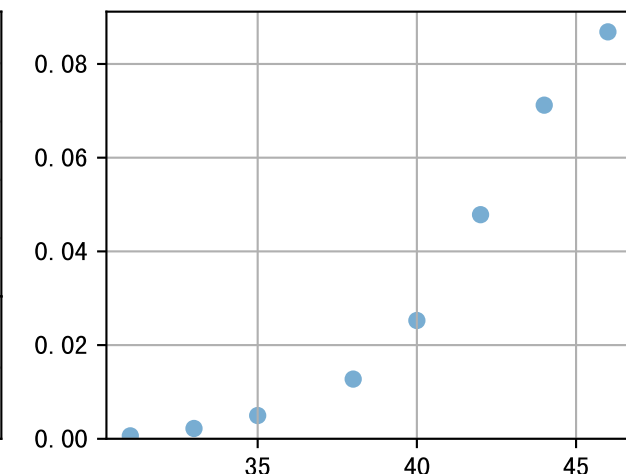
P9AE-065-3T2Fr5 (fit failed)



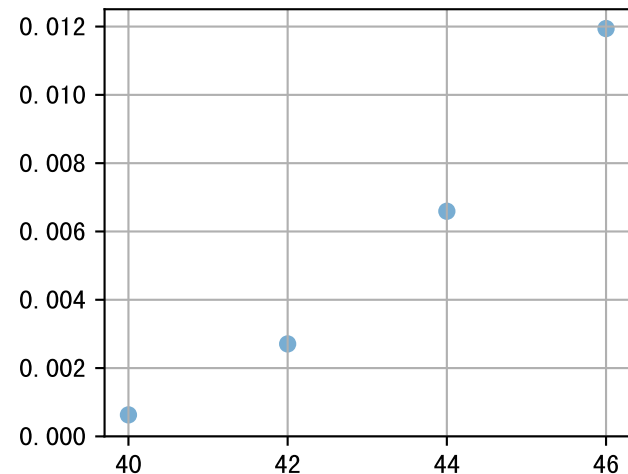
P9AE-077-32T1Fr1 (fit failed)



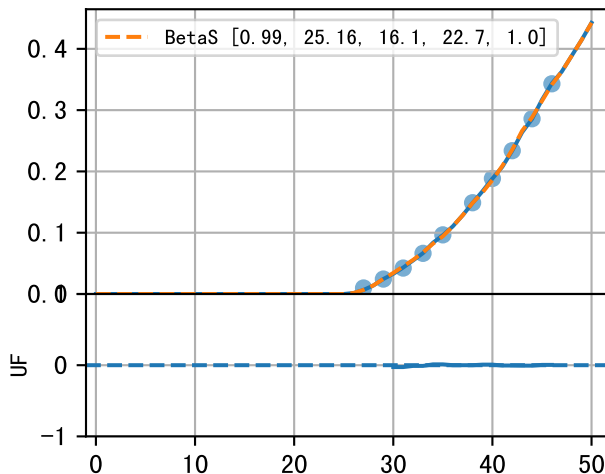
P9AE-077-32T1Fr5 (fit failed)



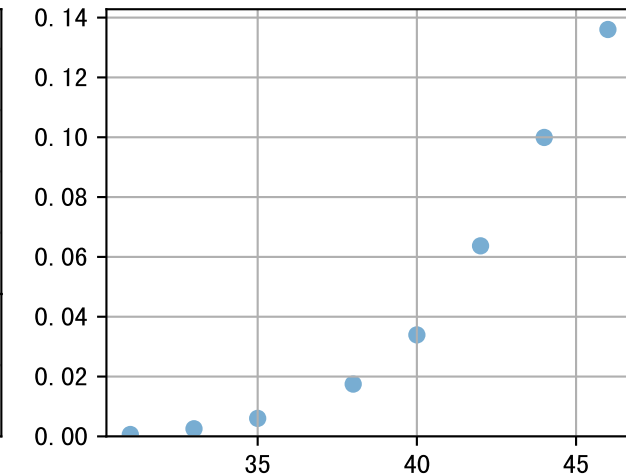
P9AE-077-32T2Fr1 (fit failed)



P9AE-089-25T1Fr1

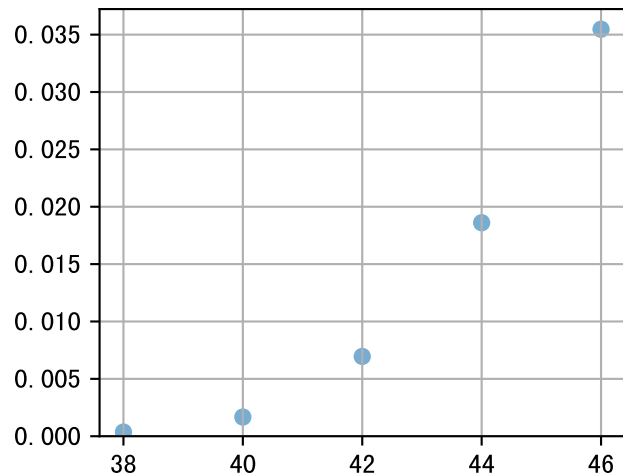


P9AE-089-25T1Fr5 (fit failed)

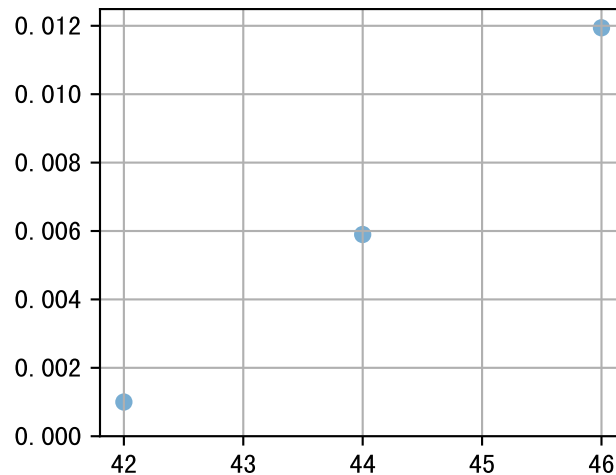


FrV

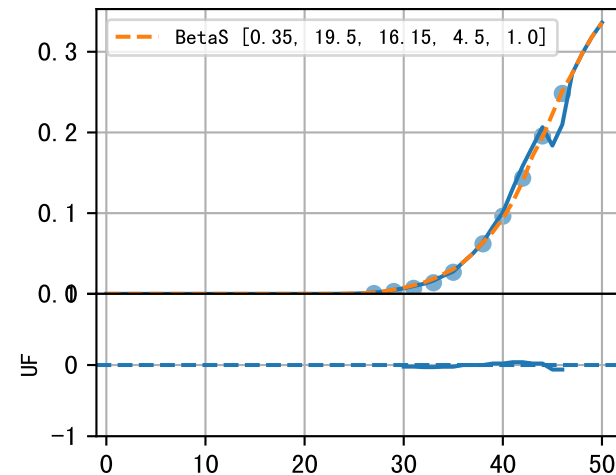
P9AE-089-25T2Fr1 (fit failed)



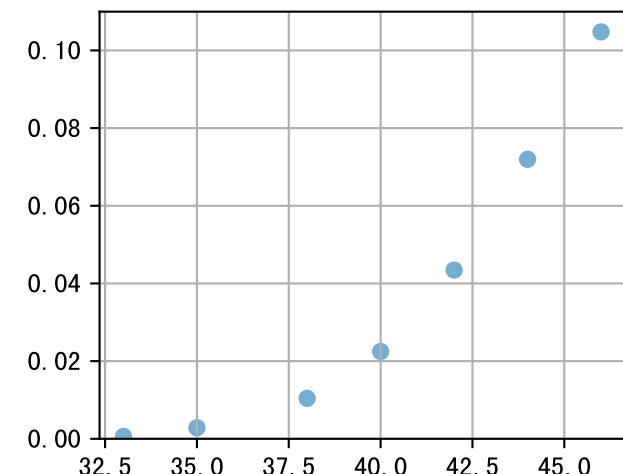
P9AE-089-25T2Fr5 (fit failed)



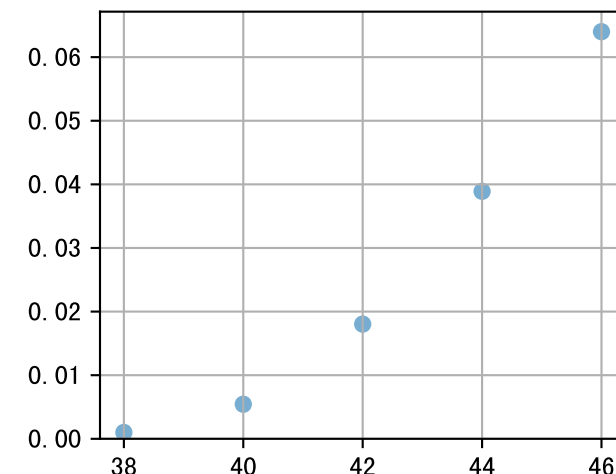
P9AE-100-19T1Fr1



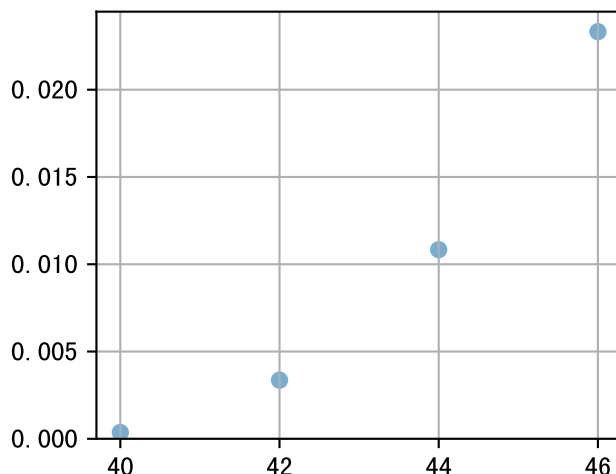
P9AE-100-19T1Fr5 (fit failed)



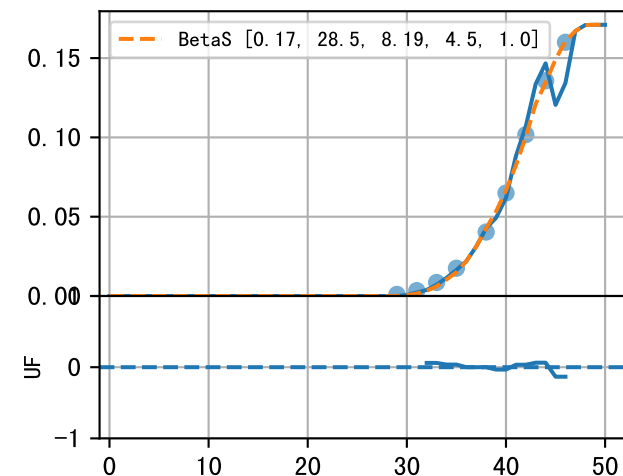
P9AE-100-19T2Fr1 (fit failed)



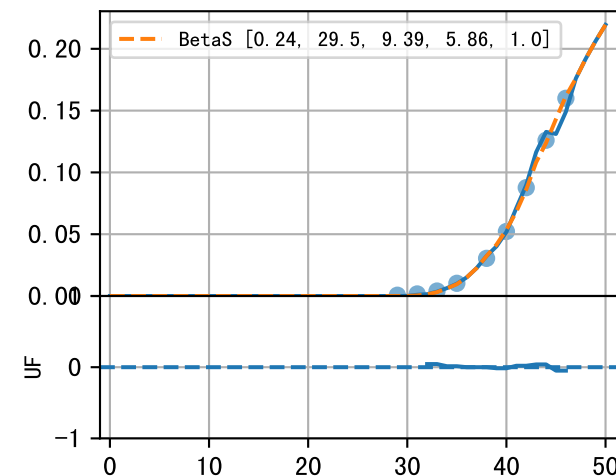
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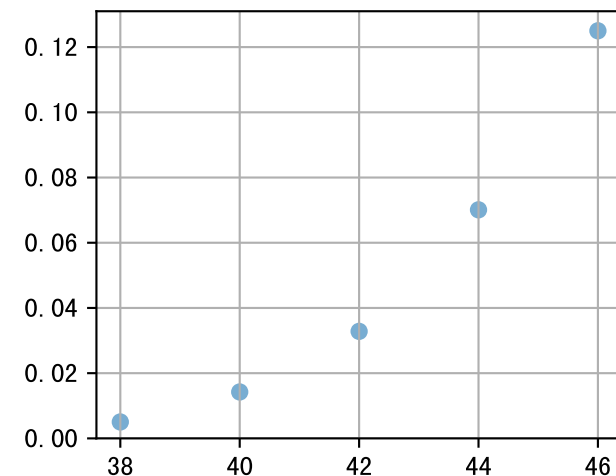
P9AE-111-7T1Fr1



P9AE-111-7T1Fr5

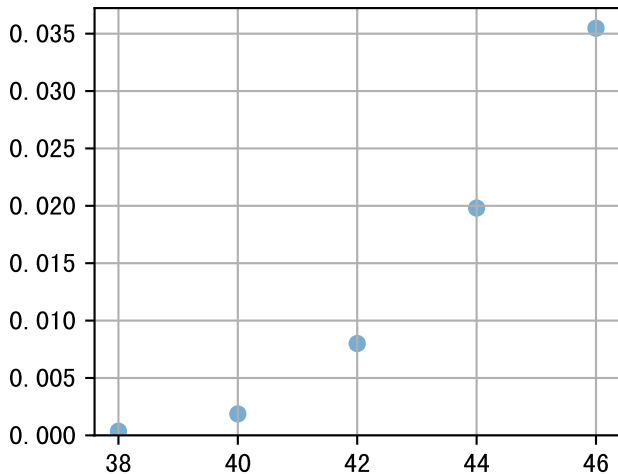


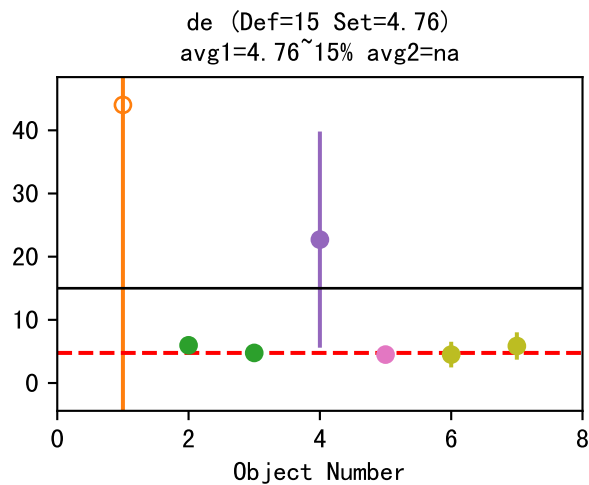
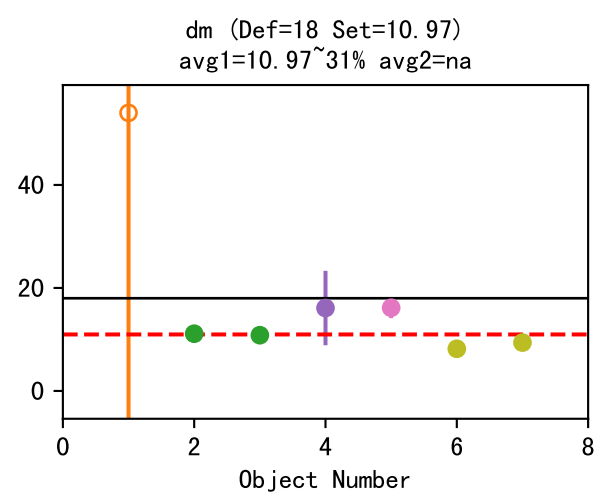
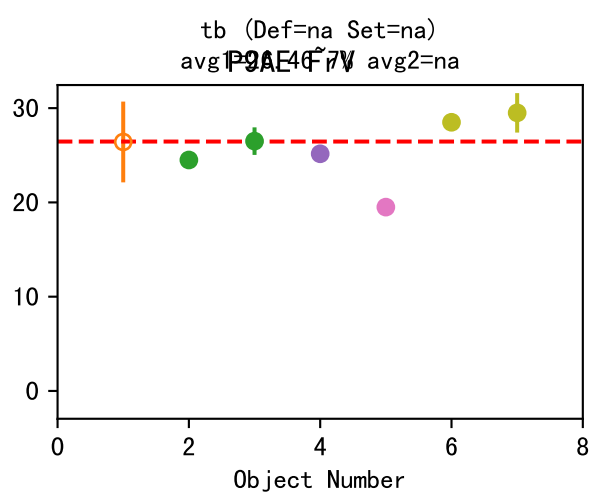
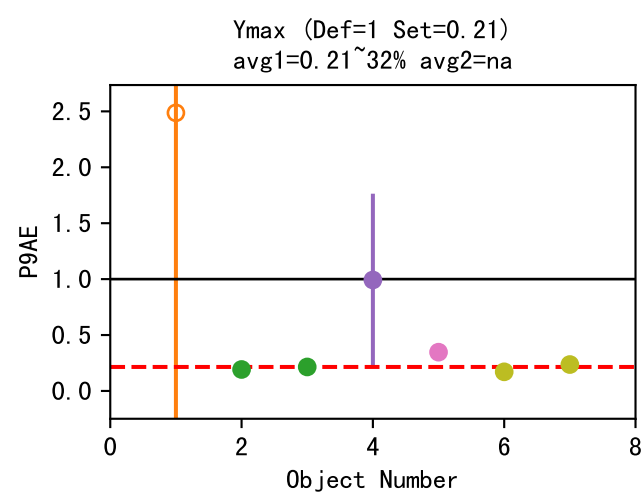
P9AE-111-7T2Fr1 (fit failed)



P9AE-111-7T2Fr5 (fit failed)

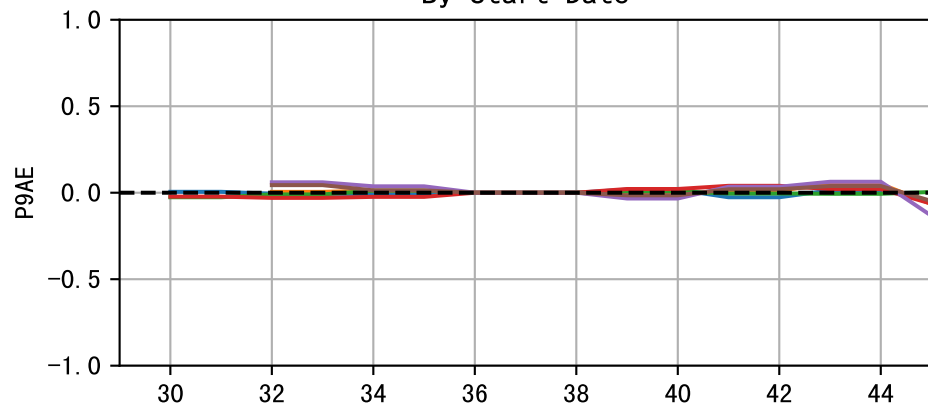
FrV



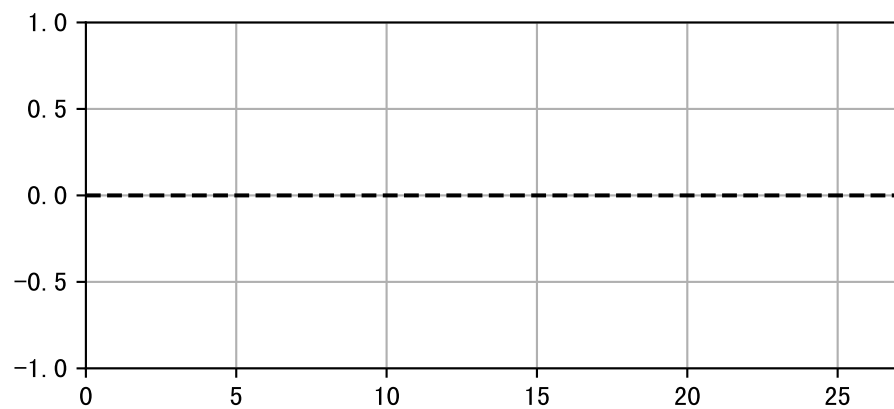
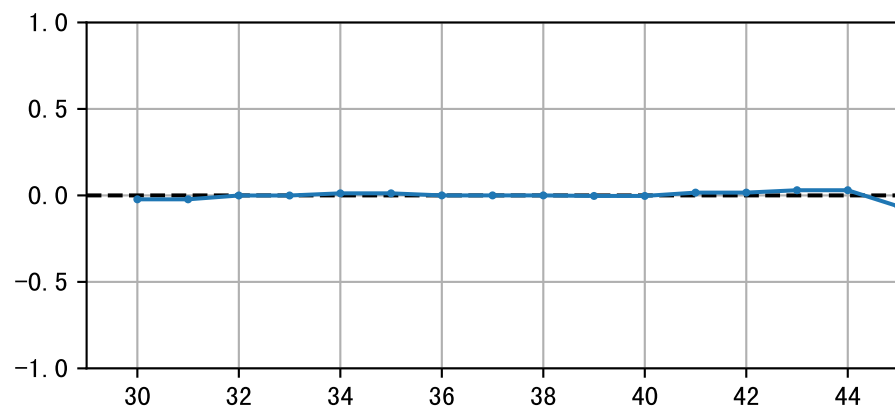
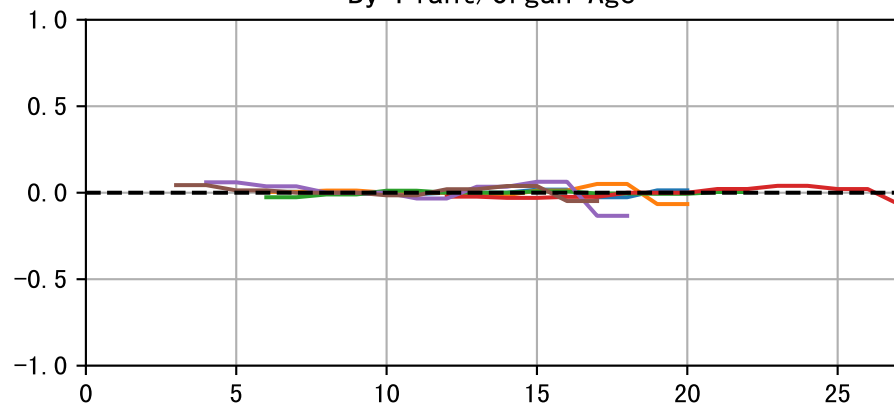


FrV

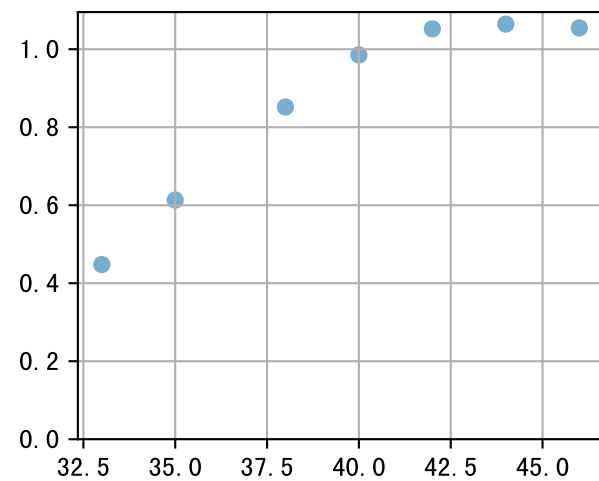
By Start Date



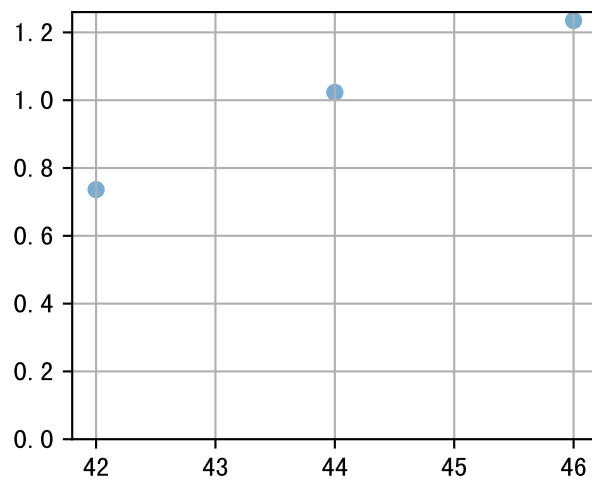
By Plant/Organ Age



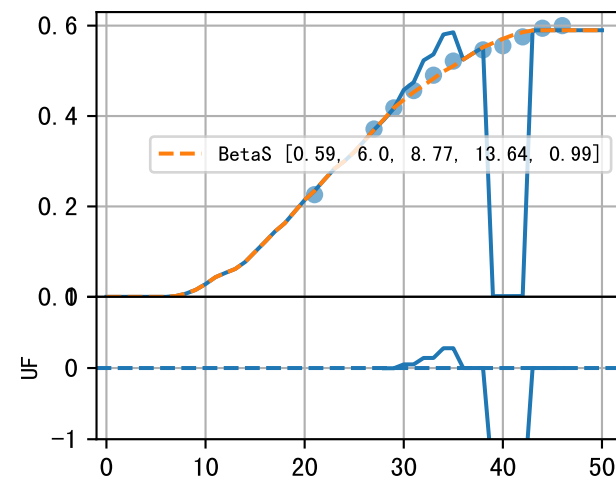
P9AE-065-3L10 (fit failed)



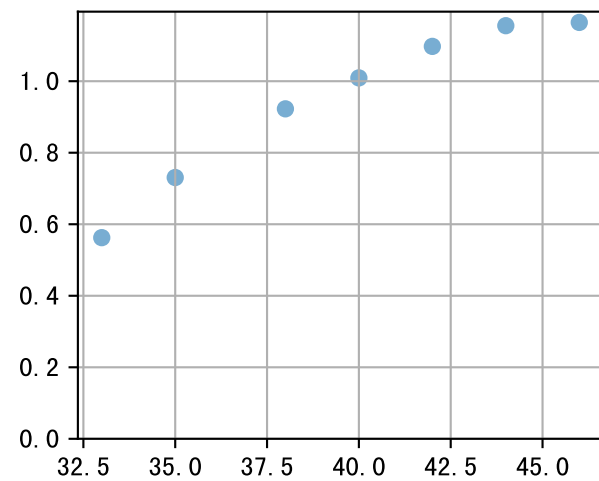
P9AE-065-3L14 (fit failed)



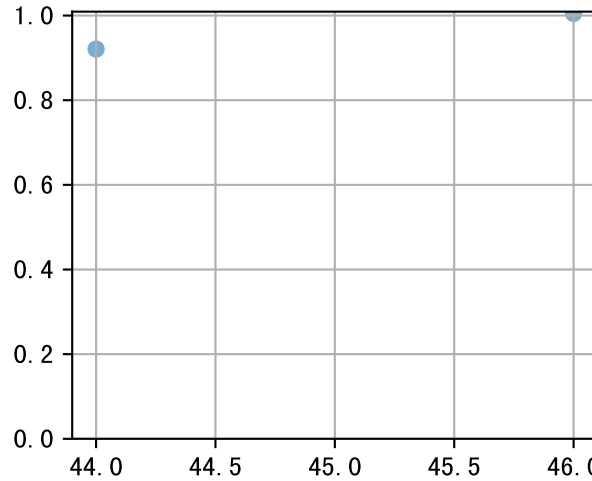
P9AE-065-3L7



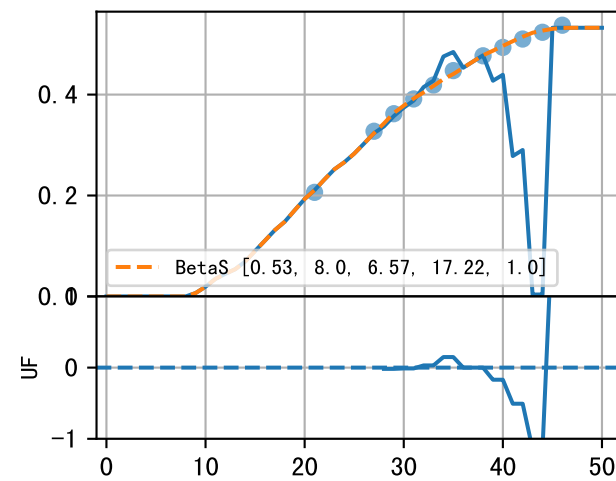
P9AE-077-32L10 (fit failed)



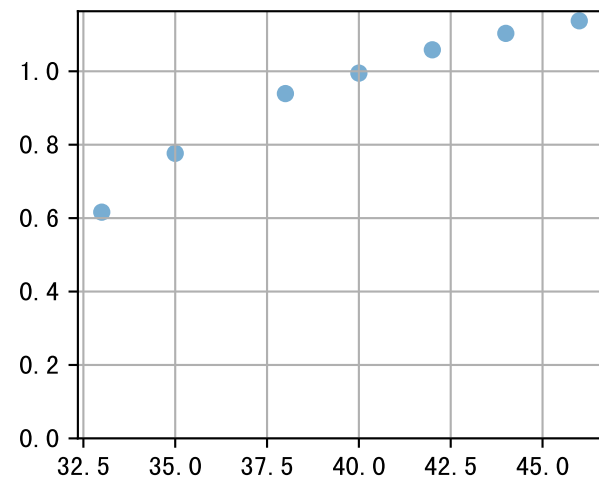
P9AE-077-32L13 (fit failed)



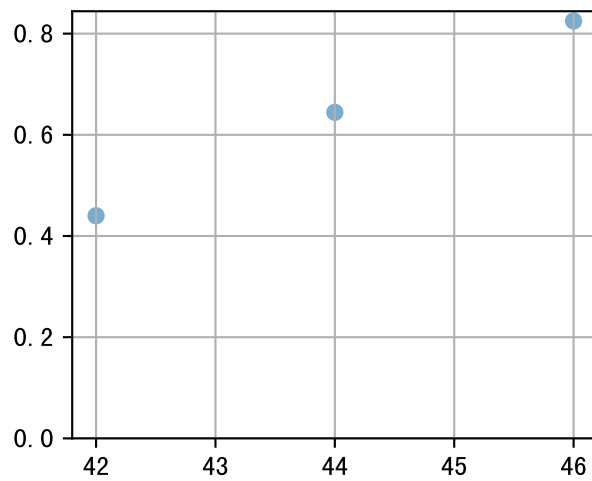
P9AE-077-32L7



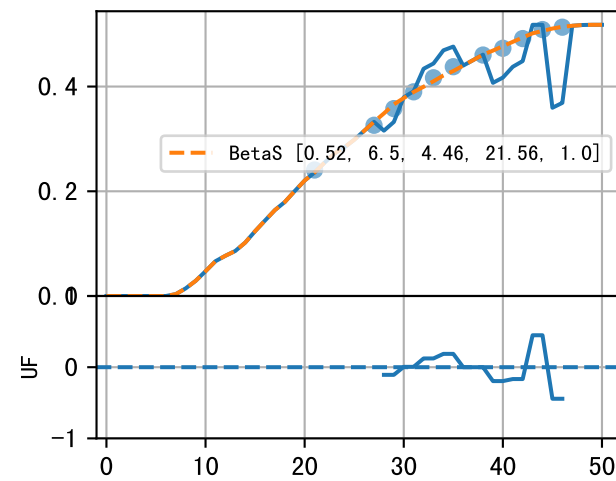
P9AE-089-25L10 (fit failed)



P9AE-089-25L13 (fit failed)

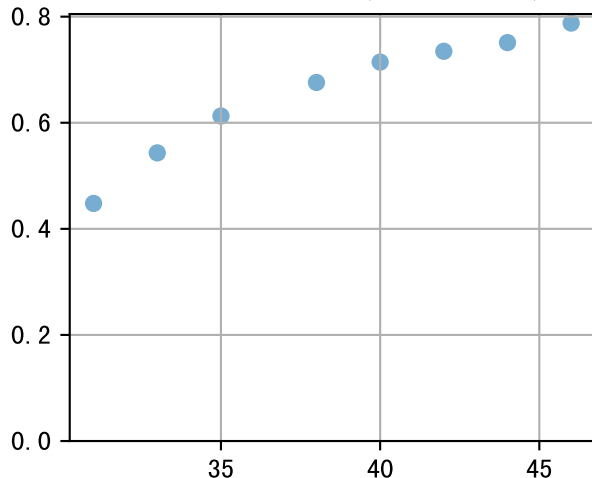


P9AE-089-25L7 (fit failed)

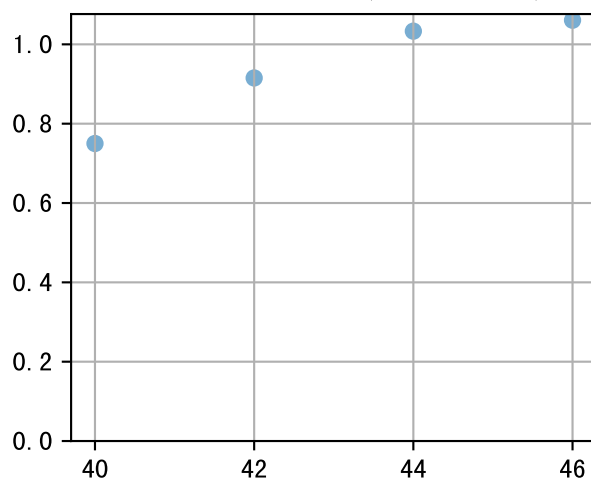


$\mathcal{L}_{fA}$

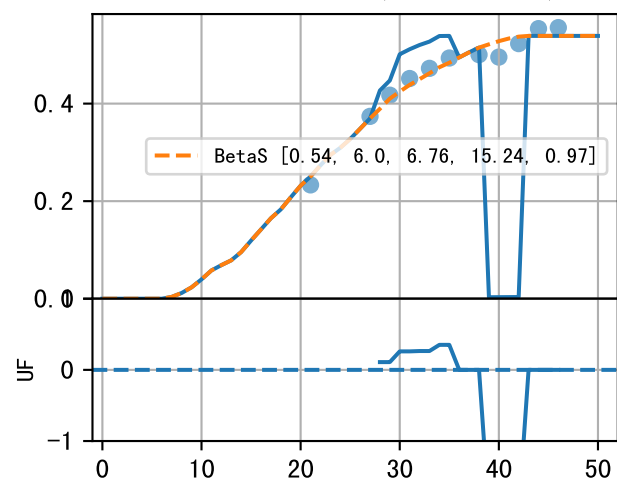
P9AE-100-19L10 (fit failed)



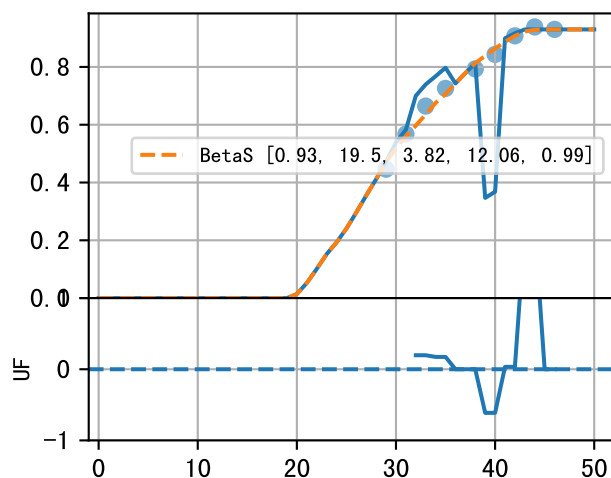
P9AE-100-19L13 (fit failed)



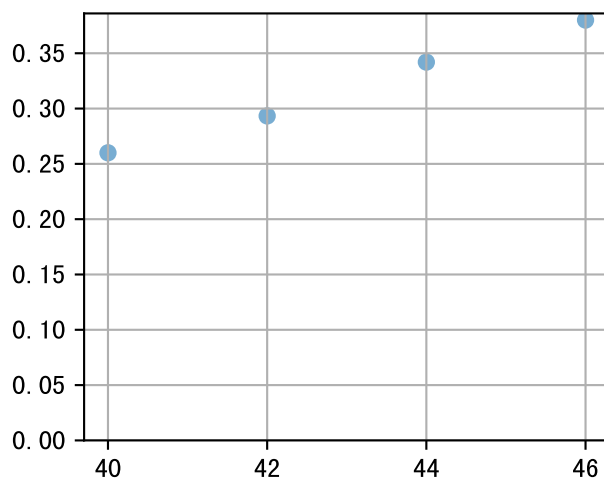
P9AE-100-19L7 (fit failed)



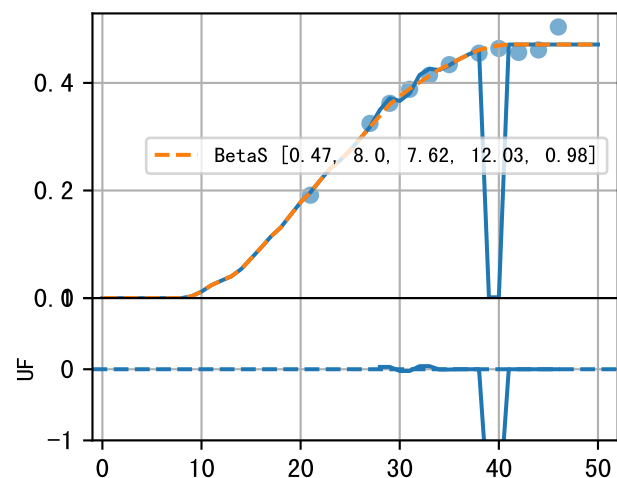
P9AE-111-7L10



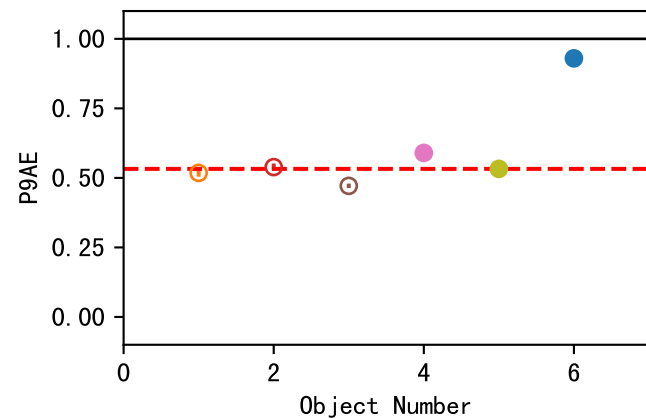
P9AE-111-7L14 (fit failed)



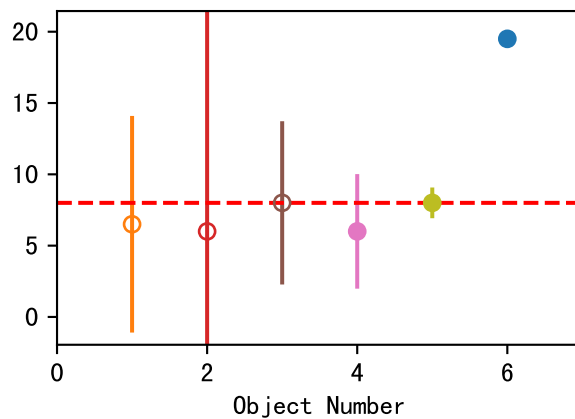
P9AE-111-7L7 (fit failed)



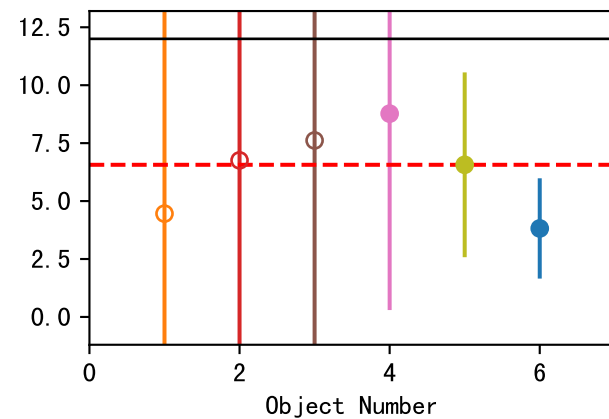
Ymax (Def=1 Set=0.53)
avg1=0.53~8% avg2=na



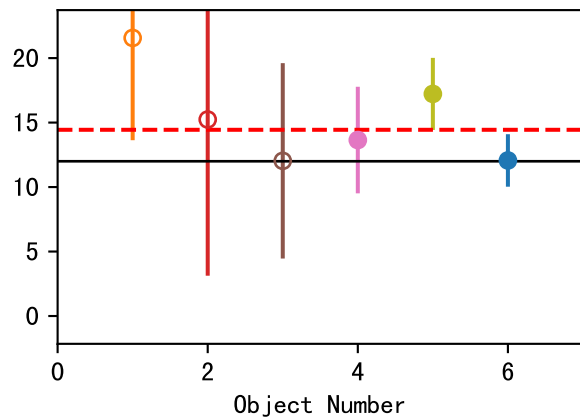
tb (Def=na Set=na)
avg1=na~14% avg2=na



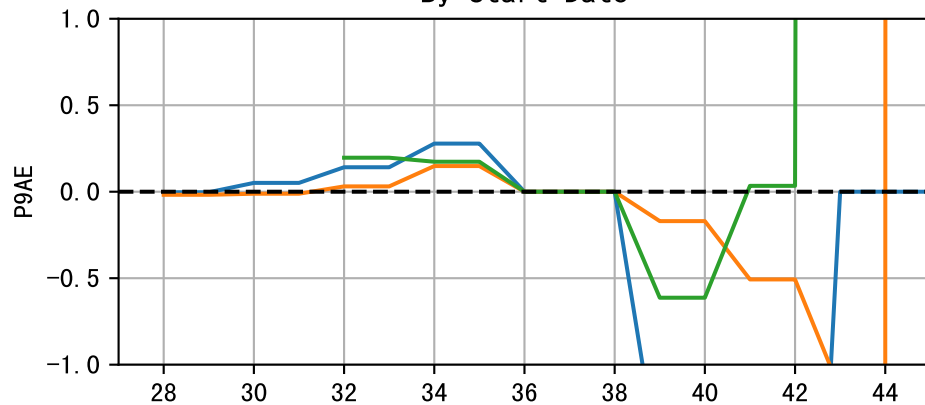
dm (Def=12 Set=12)
avg1=6.57~38% avg2=na



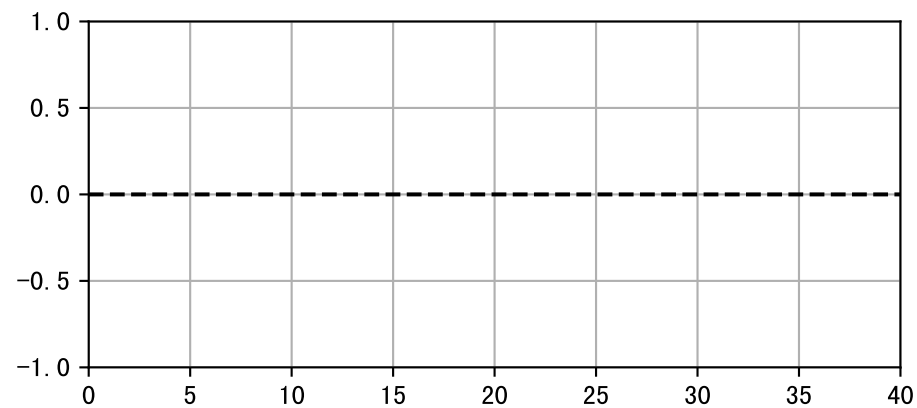
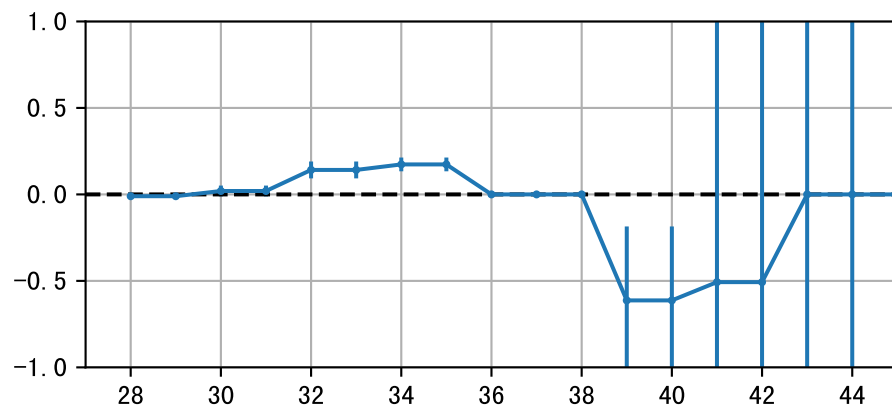
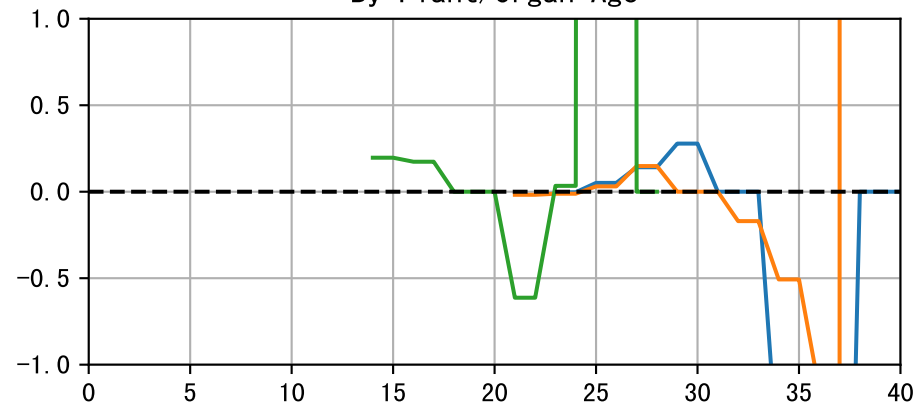
de (Def=12 Set=14.44)
avg1=14.44~25% avg2=na

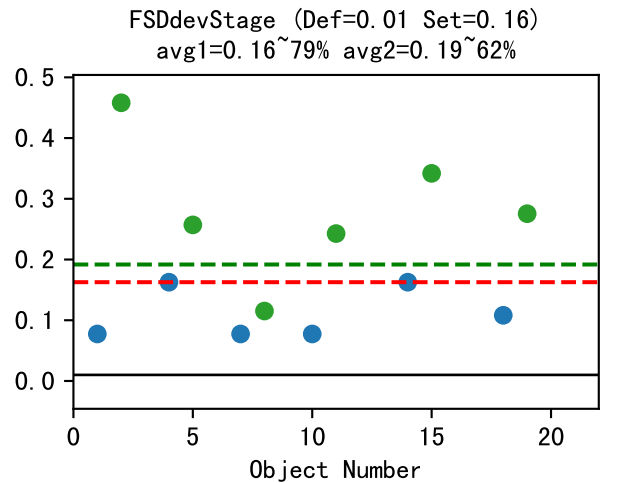
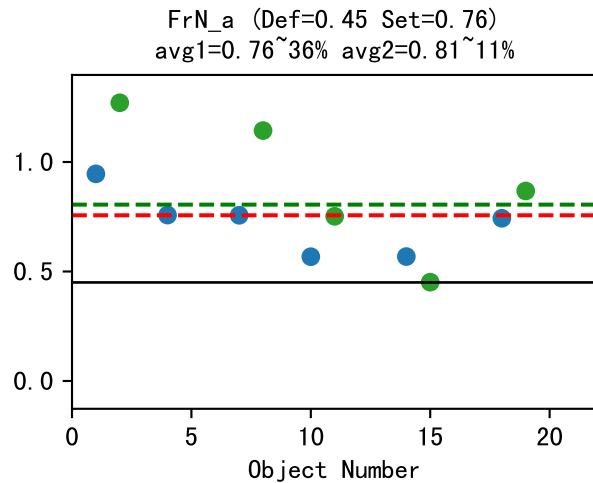
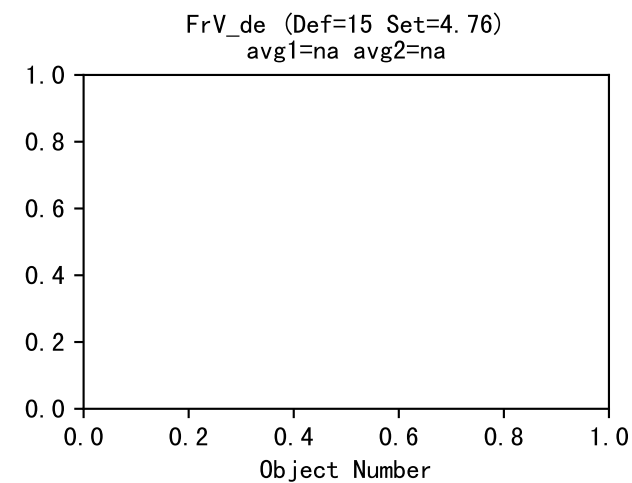
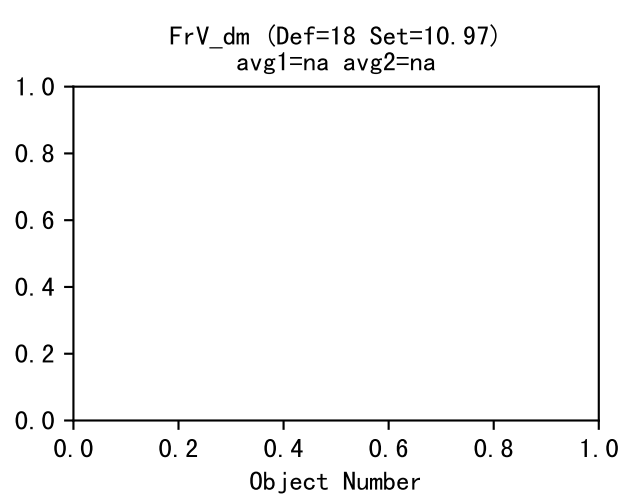
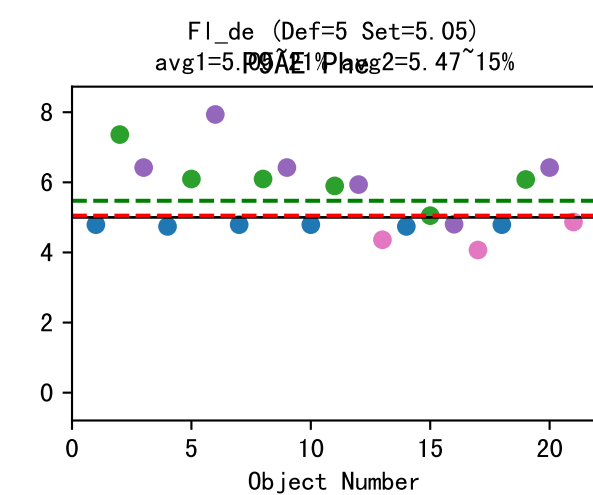
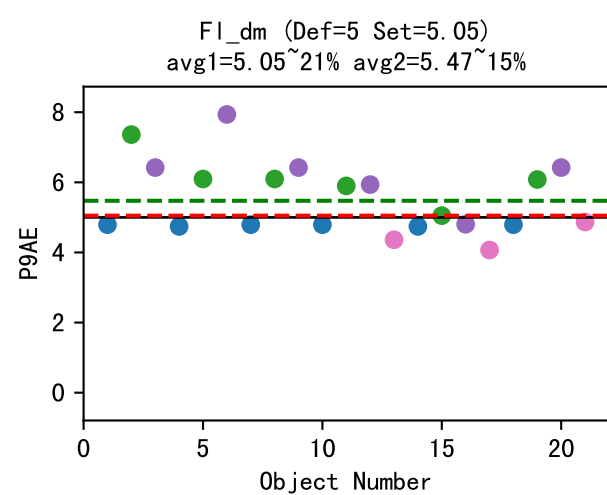


By Start Date

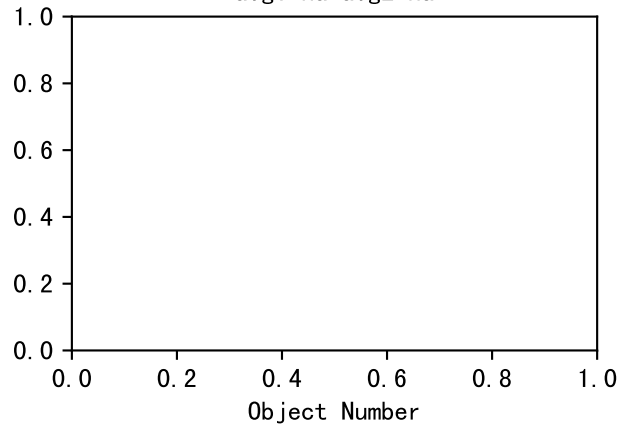


By Plant/Organ Age

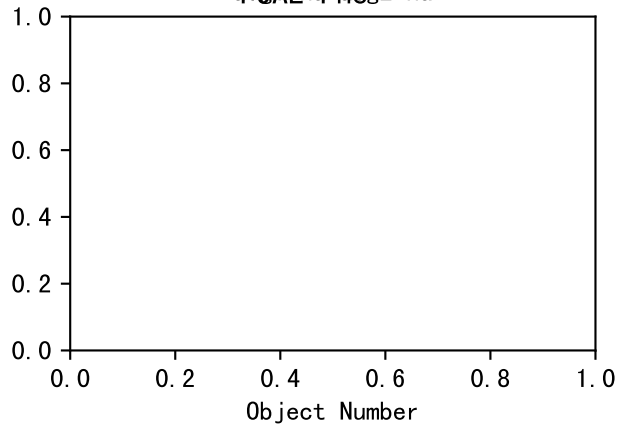




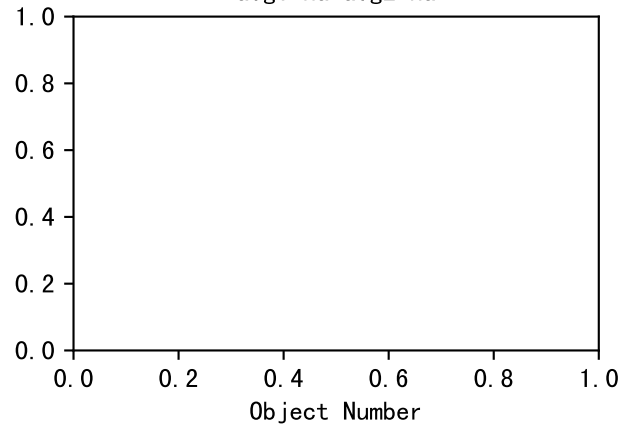
FGDdevStage (Def=0.7 Set=0.7)
avg1=na avg2=na



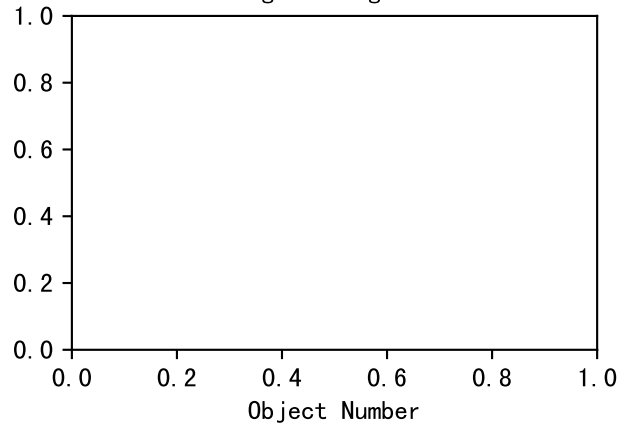
FMBDdevStage (Def=1.3 Set=1.3)
avg1=na avg2=na



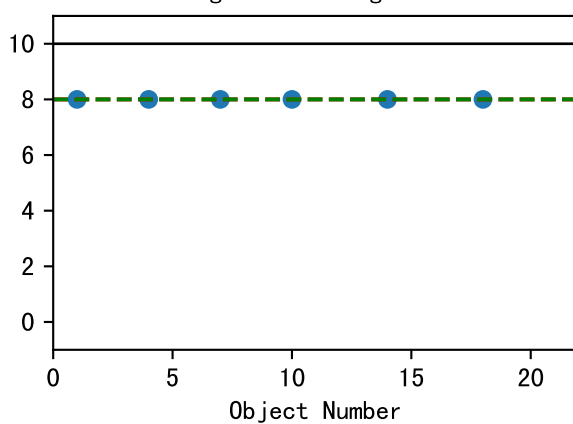
FMEDdevStage (Def=1.8 Set=1.8)
avg1=na avg2=na



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

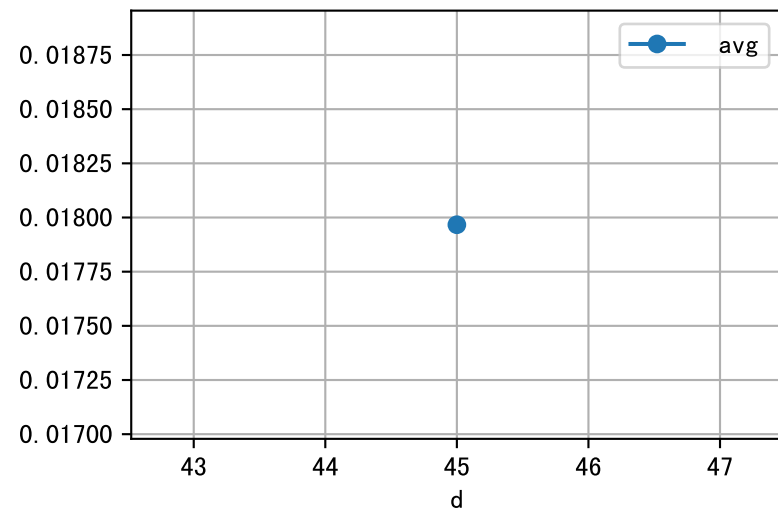


NNgen (Def=10 Set=8)
avg1=8.0~0% avg2=8.0

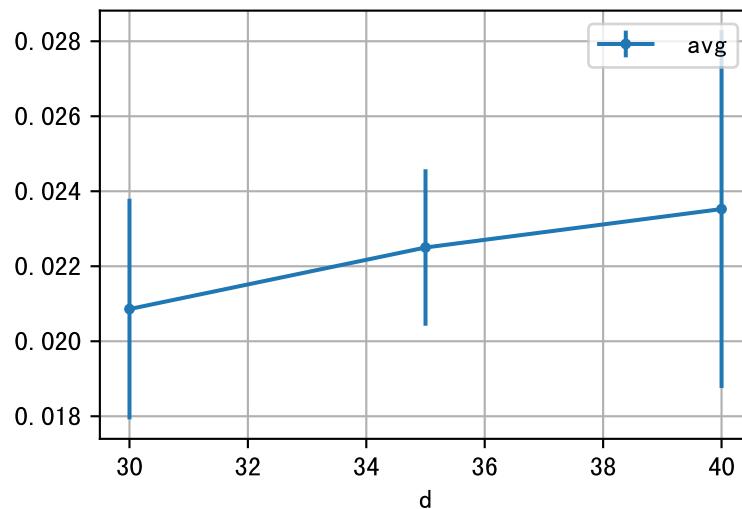


LfA: avg vs. d at each age group

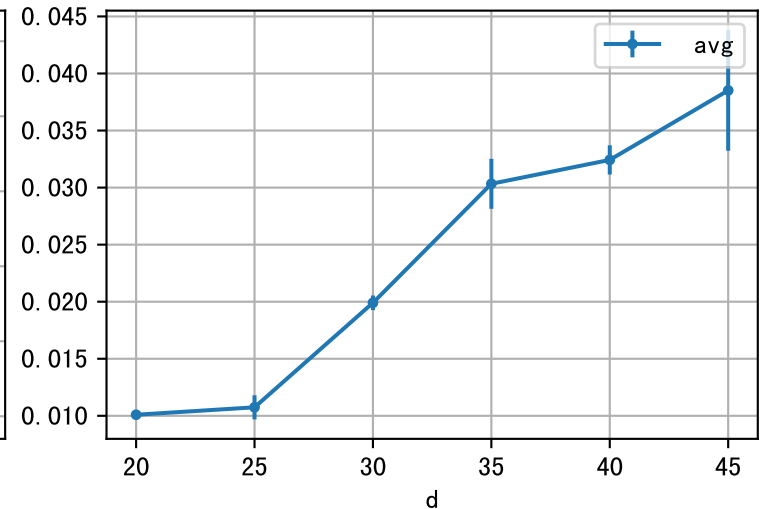
age=15



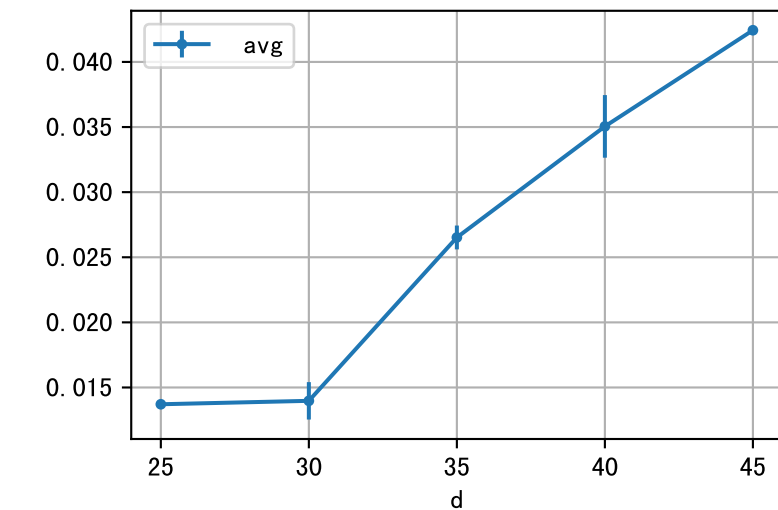
age=20



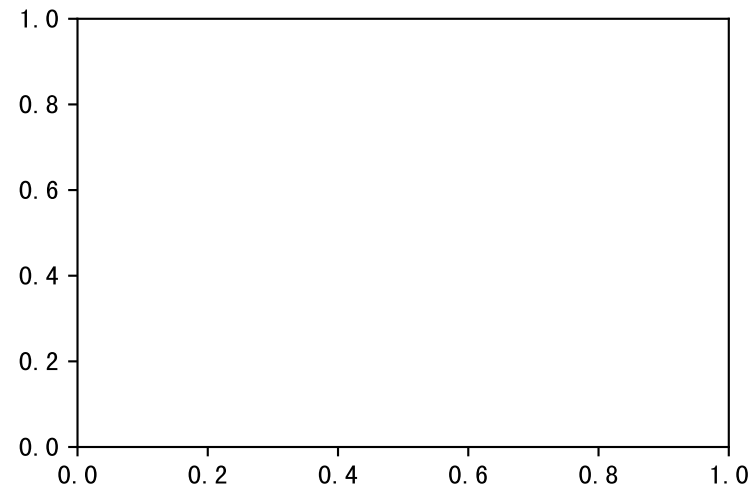
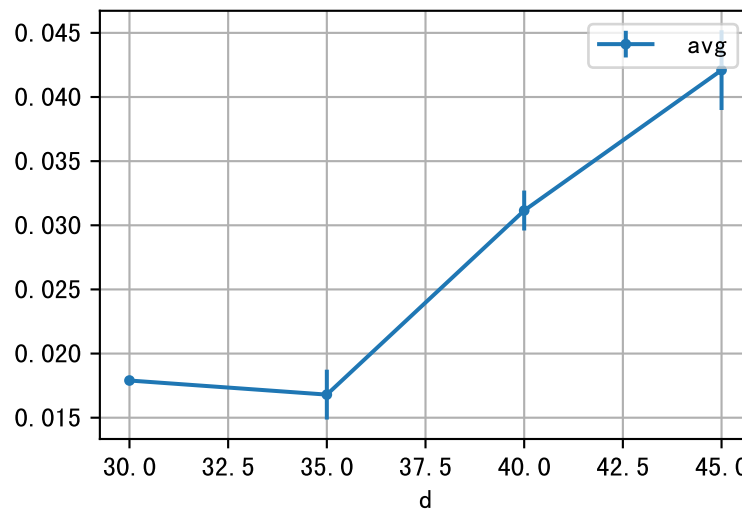
age=25



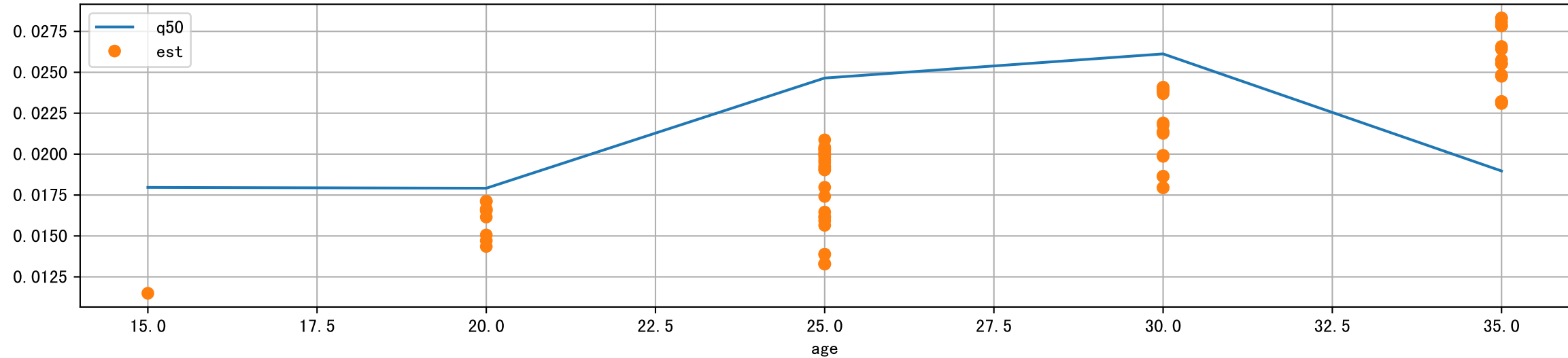
age=30



age=35



LfA: model est vs obs0v@Q50

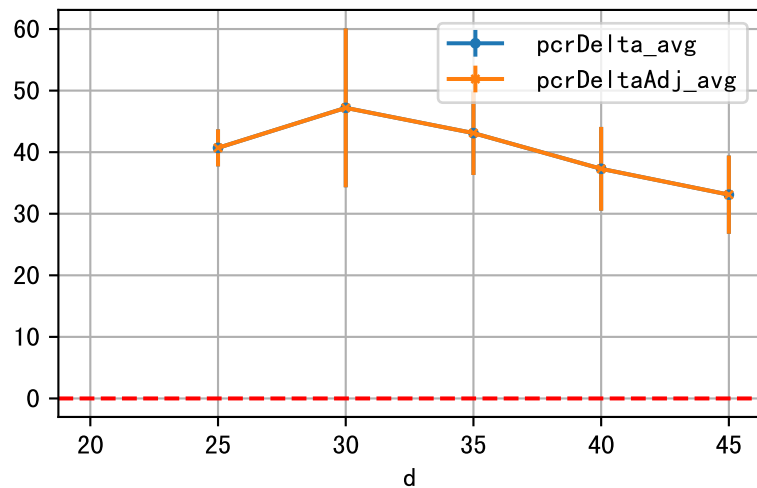
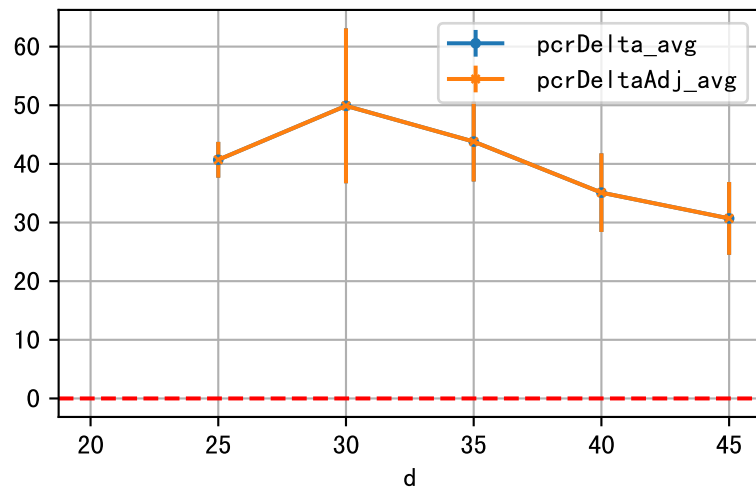
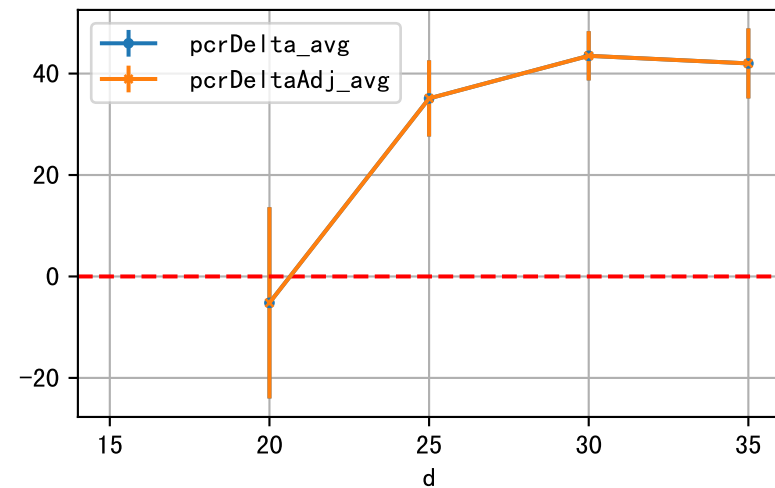


P9AE LfA: D_5d_LfA

DeltaTypeAbbr=GrpByAge

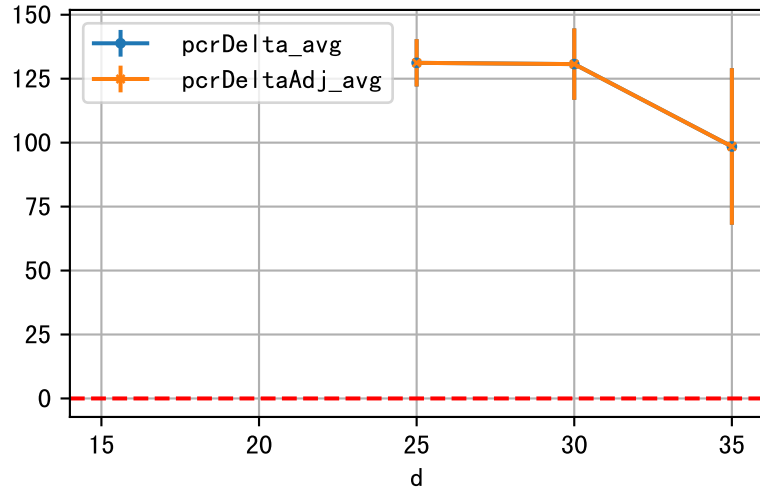
DeltaTypeAbbr=GrpByDay

DeltaTypeAbbr=Wei AvgByD

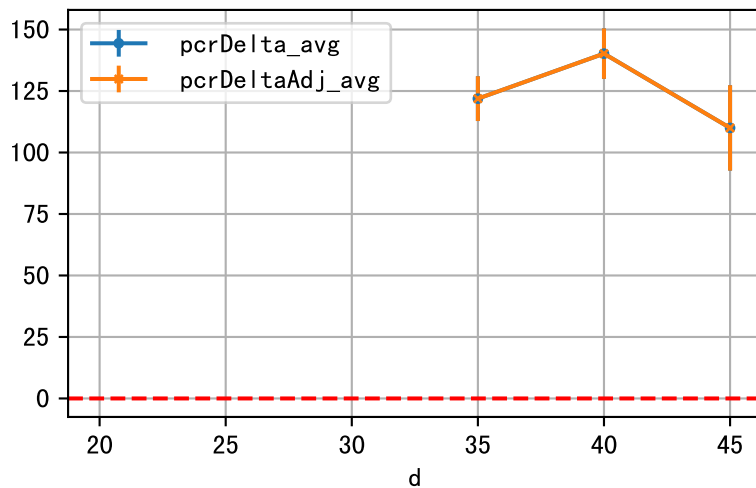


P9AE LfA: D_15d_LfA

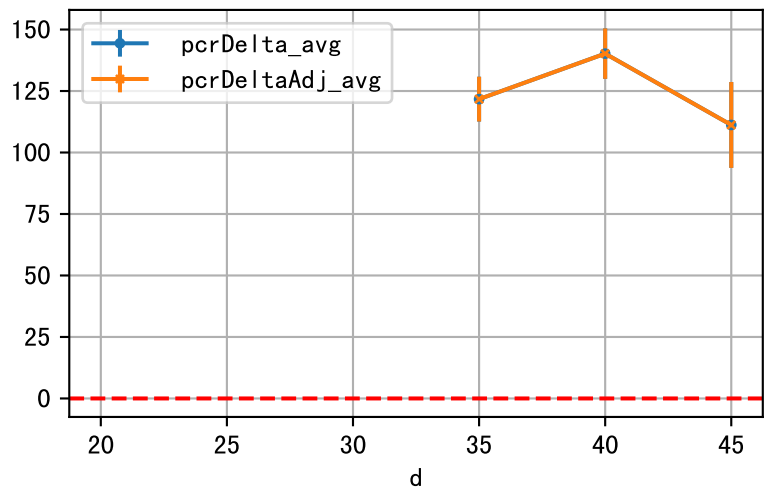
DeltaTypeAbbr=GrpByAge



DeltaTypeAbbr=GrpByDay

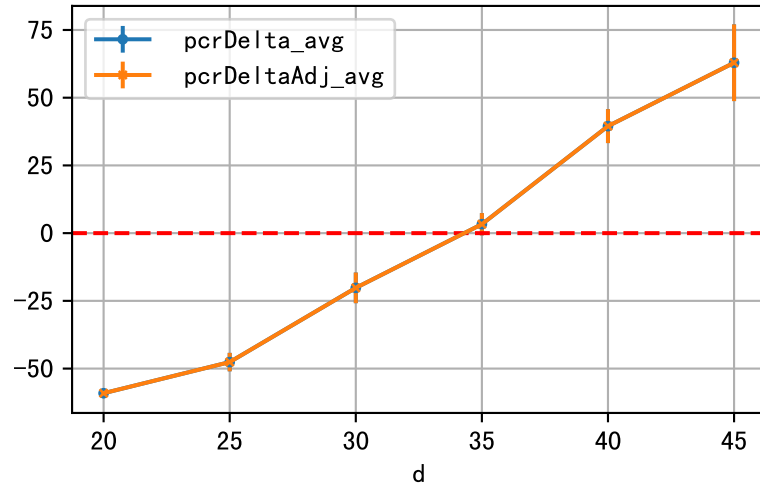
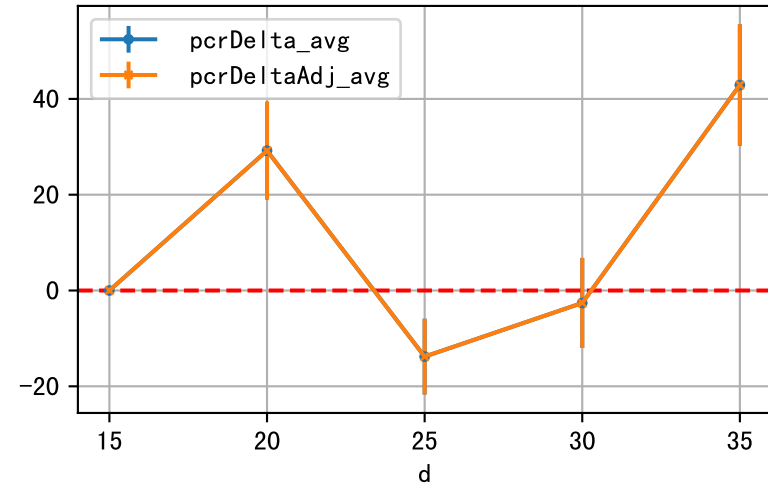


DeltaTypeAbbr=Wei AvgByD

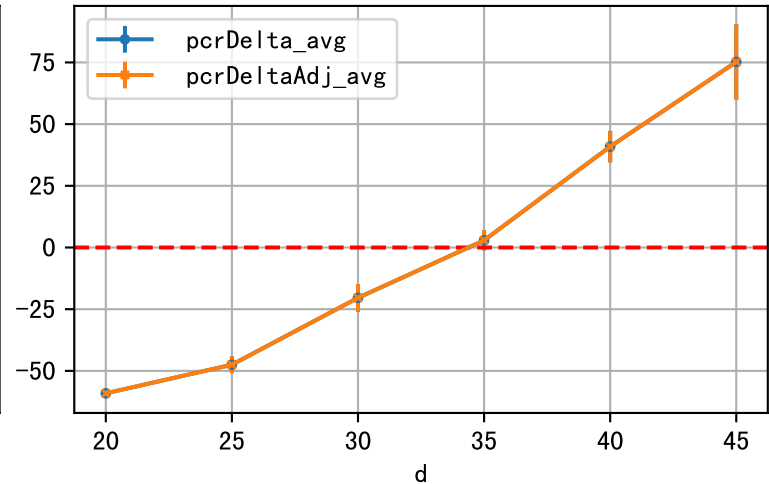


P9AE LfA: D_Q50_LfA

DeltaTypeAbbr=GrpByDay

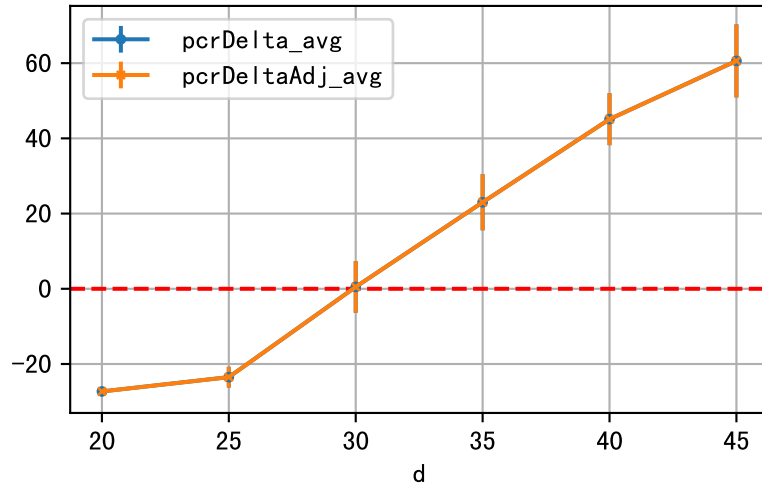
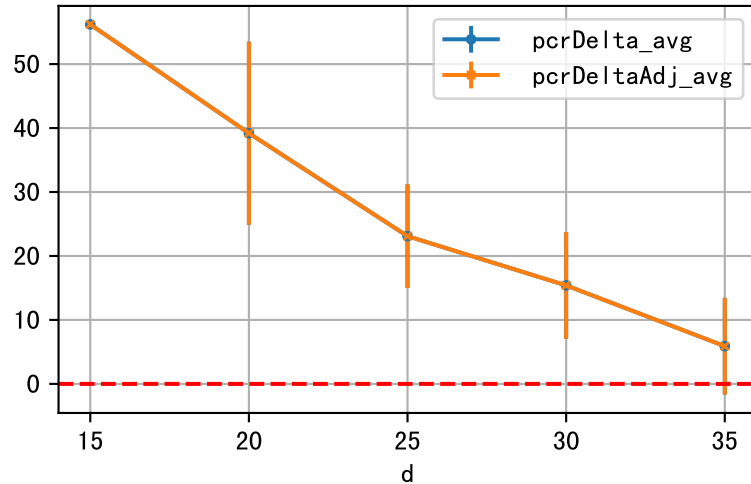


DeltaTypeAbbr=Wei AvgByD

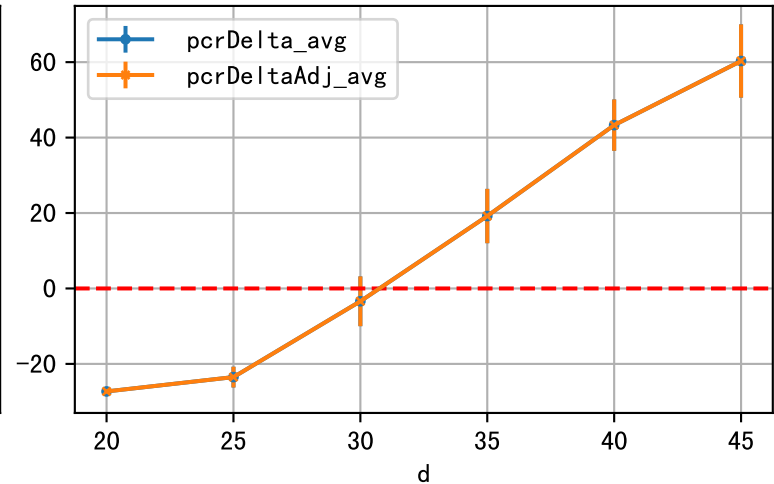


P9AE LfA: D_Est_LfA

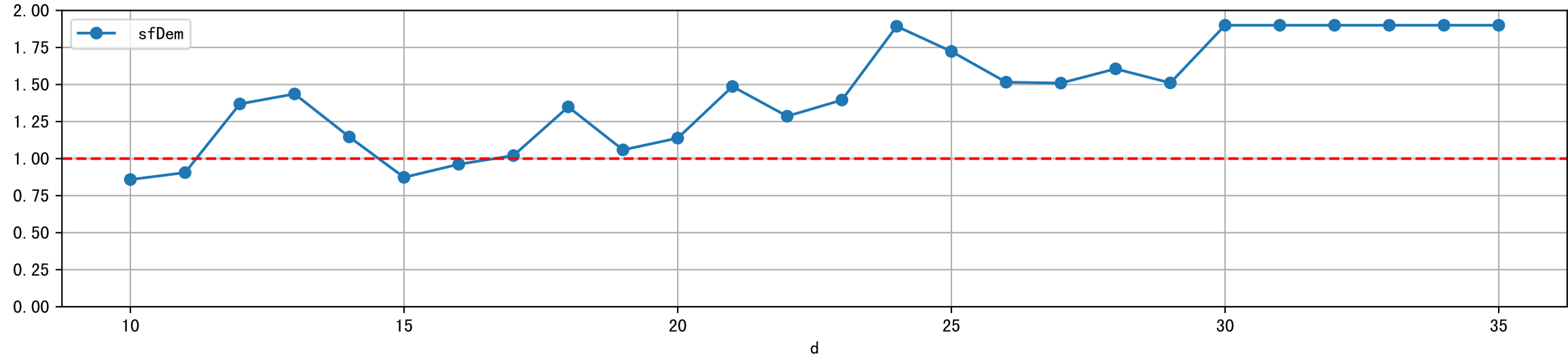
DeltaTypeAbbr=GrpByDay



DeltaTypeAbbr=Wei AvgByD



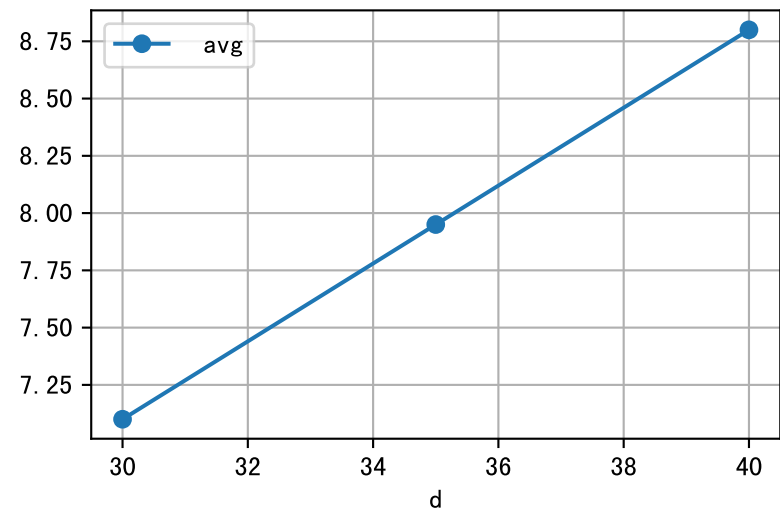
LfA: sfDem



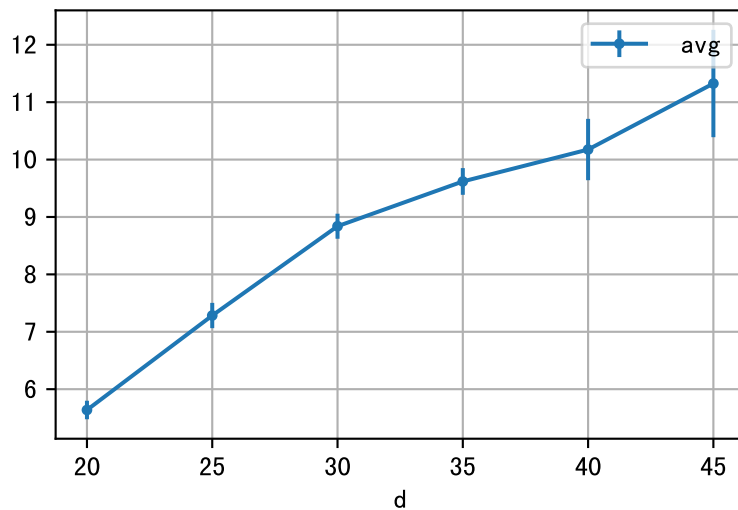


NdD: avg vs. d at each age group

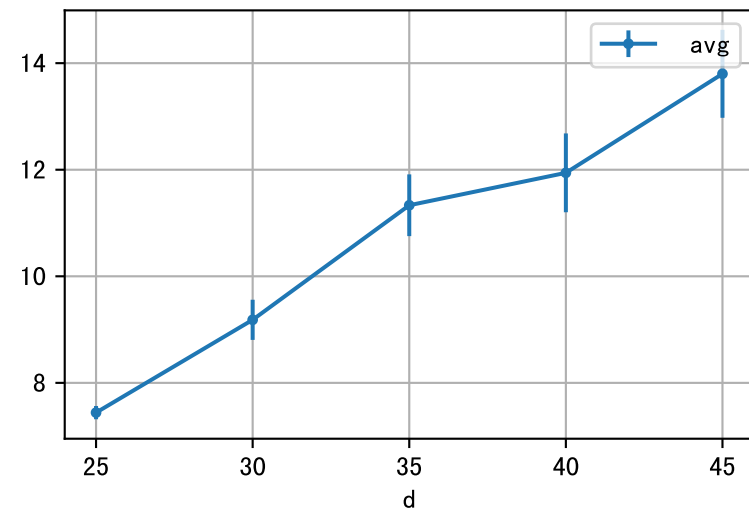
age=15



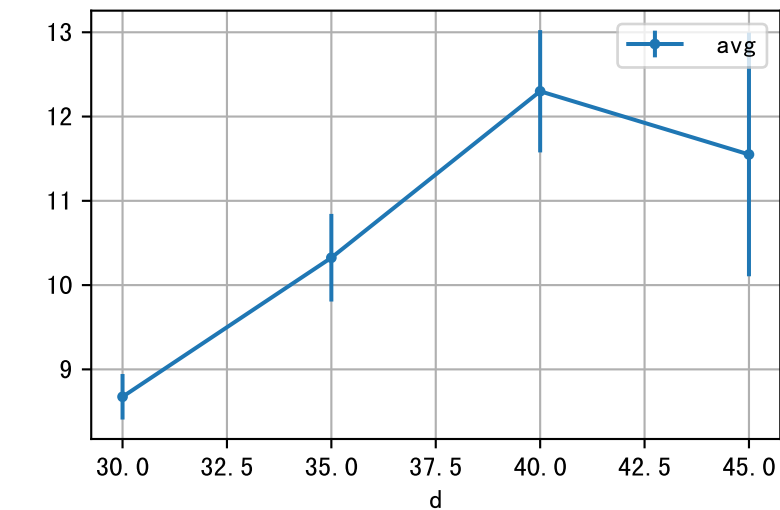
age=20



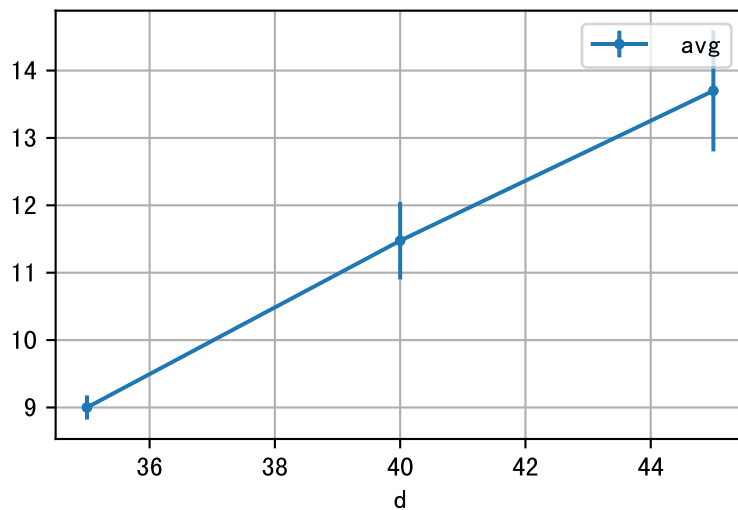
age=25



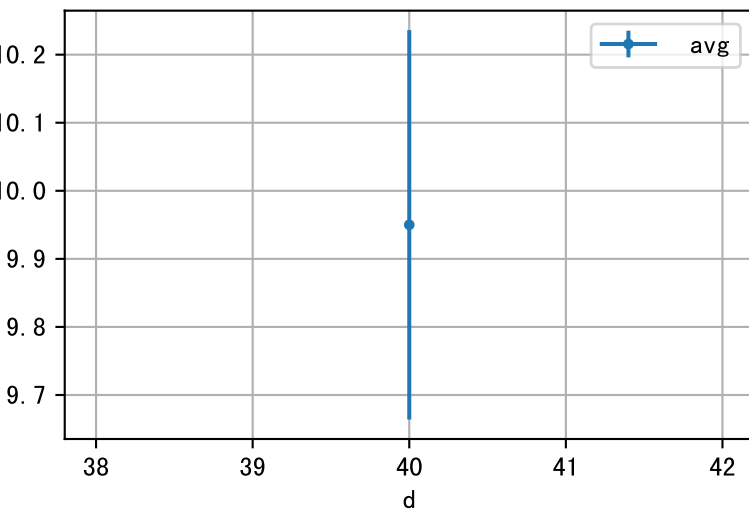
age=30



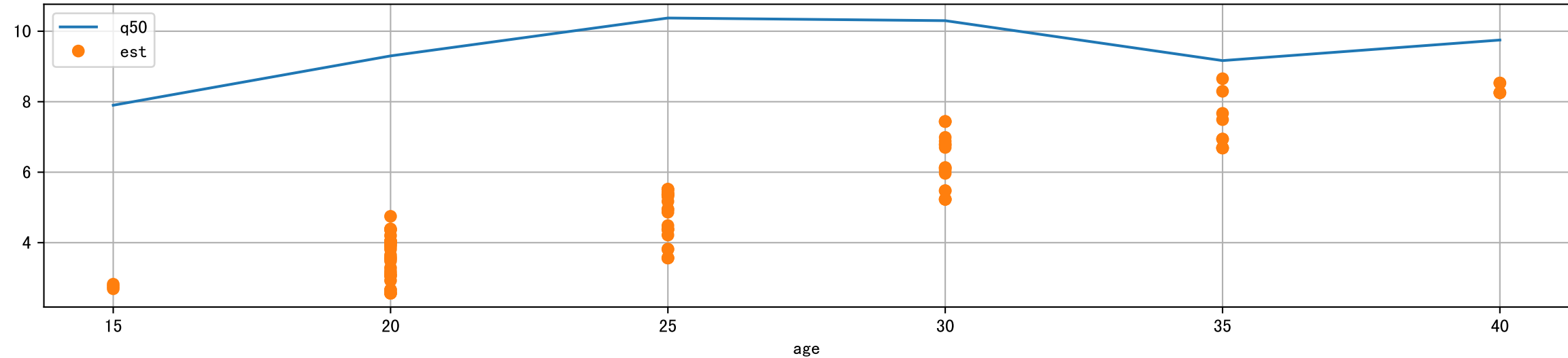
age=35



age=40

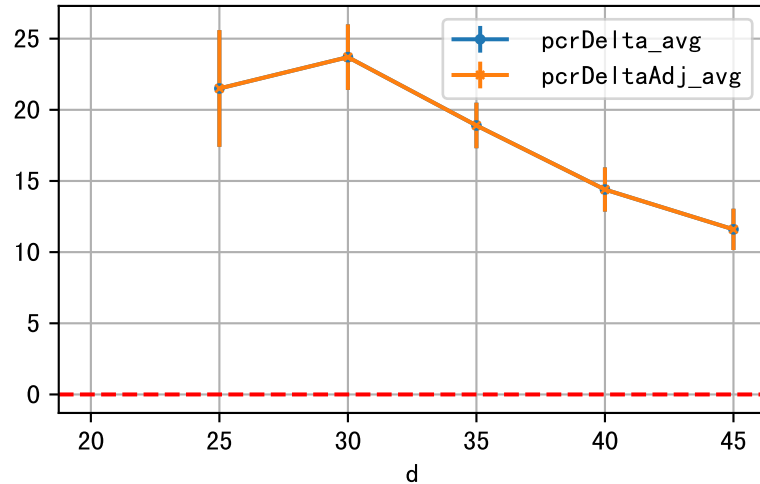


NdD: model est vs obs0v@Q50

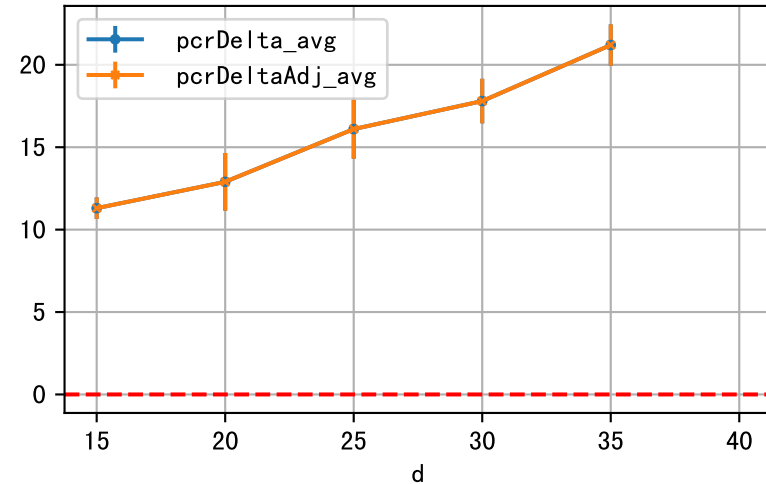


P9AE NdD: D_5d_NdD

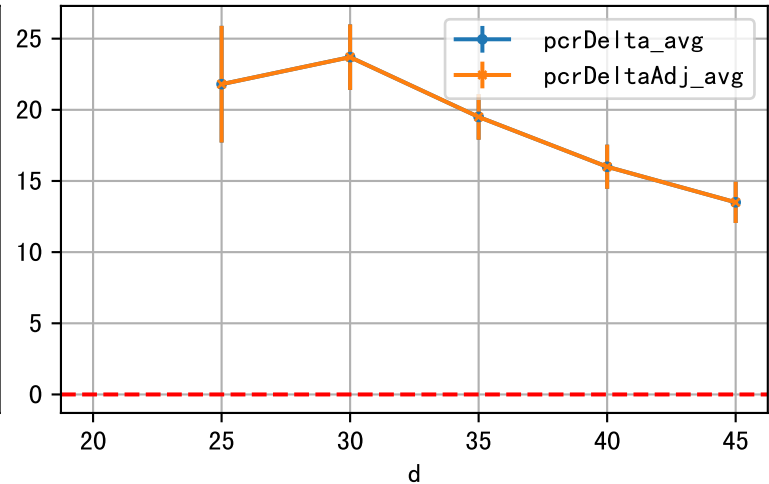
DeltaTypeAbbr=GrpByDay



DeltaTypeAbbr=GrpByAge

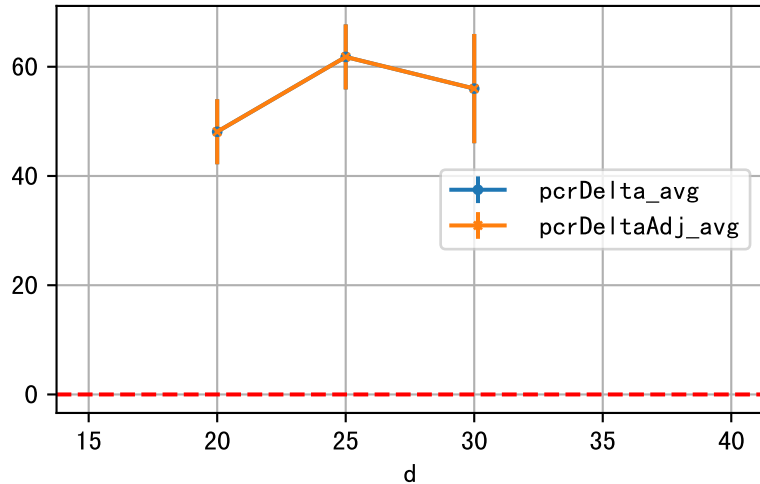


DeltaTypeAbbr=Wei AvgByD

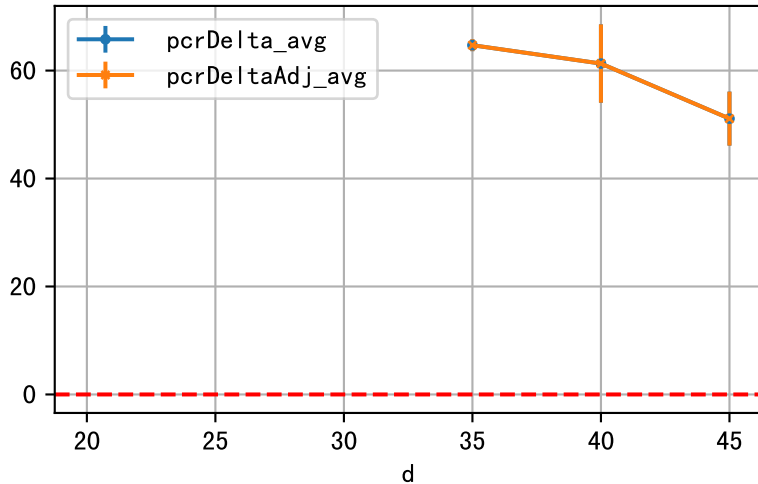


P9AE NdD: D_15d_NdD

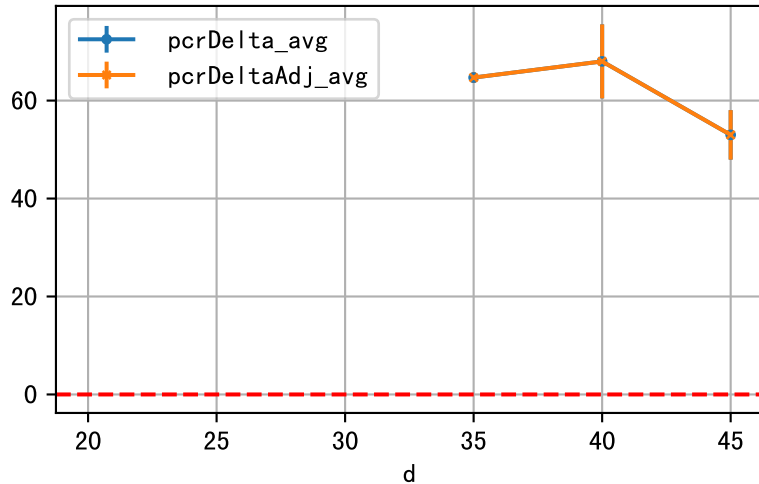
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DeltaTypeAbbr=GrpByDay

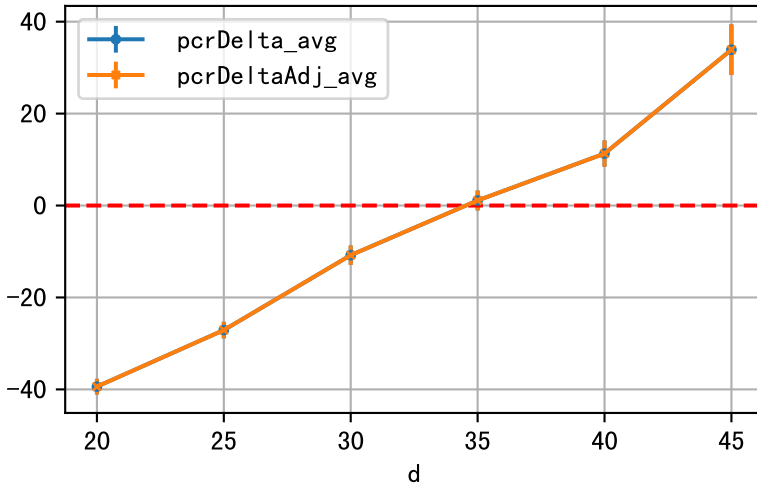


DeltaTypeAbbr=WeiAvgByD

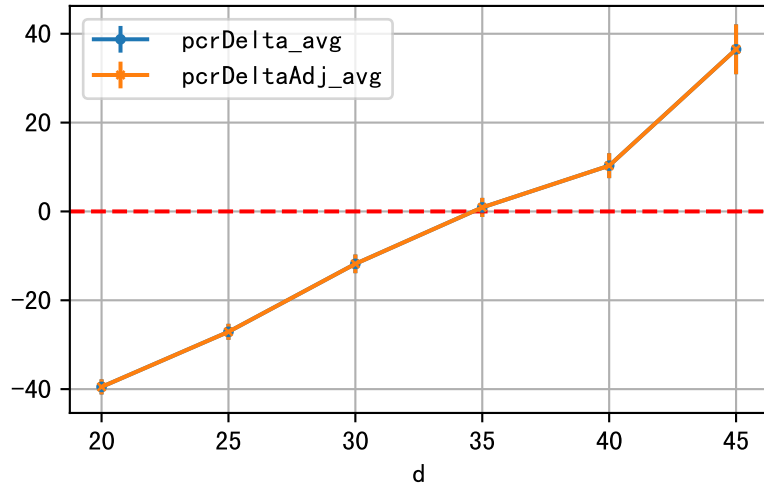


P9AE NdD: D_Q50_NdD

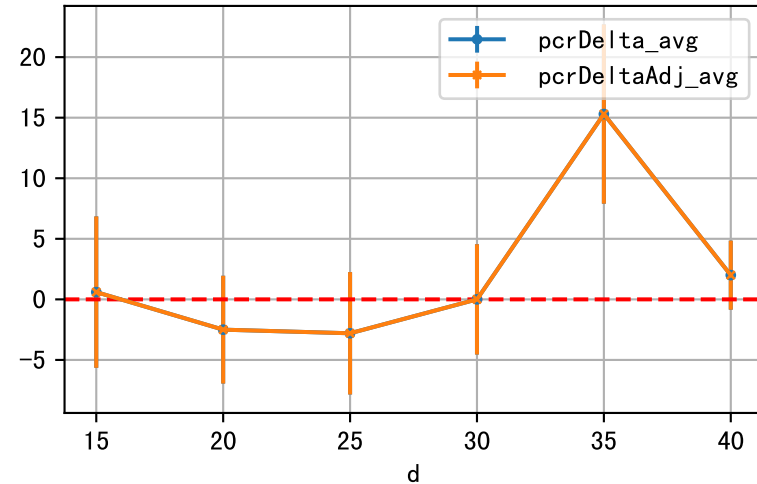
DeltaTypeAbbr=GrpByDay



DeltaTypeAbbr=Wei AvgByD

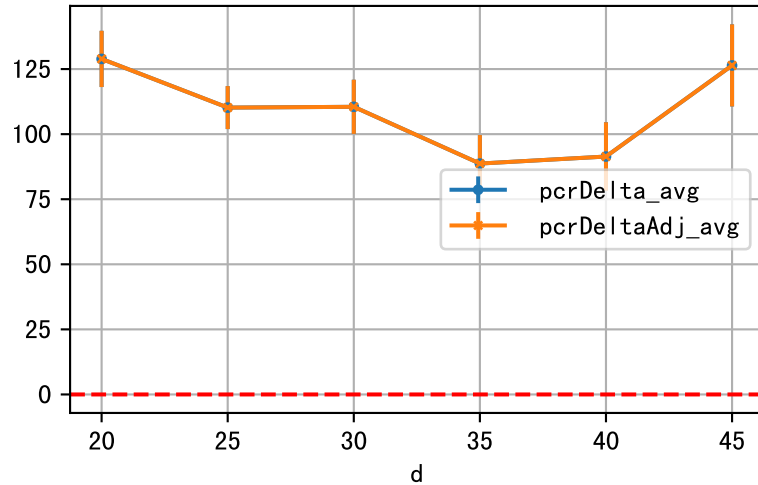


DeltaTypeAbbr=GrpByAge

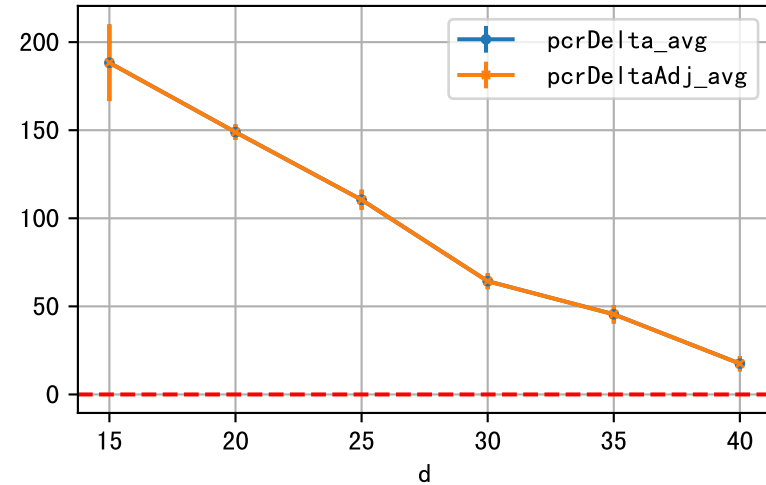


P9AE NdD: D_Est_NdD

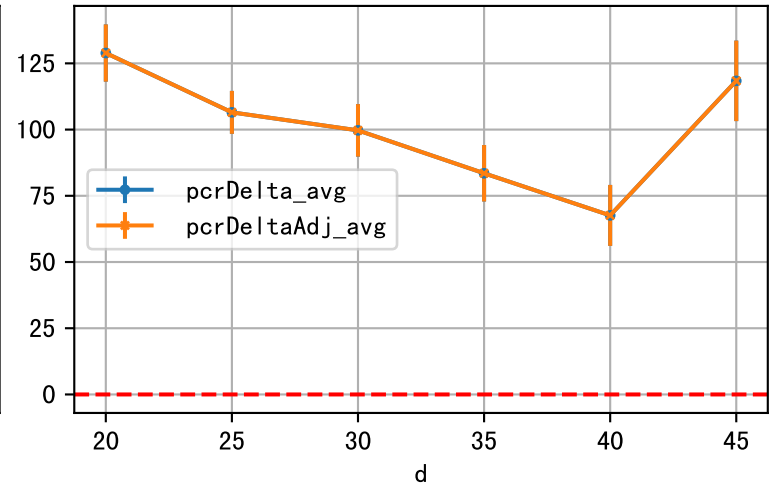
DeltaTypeAbbr=GrpByDay



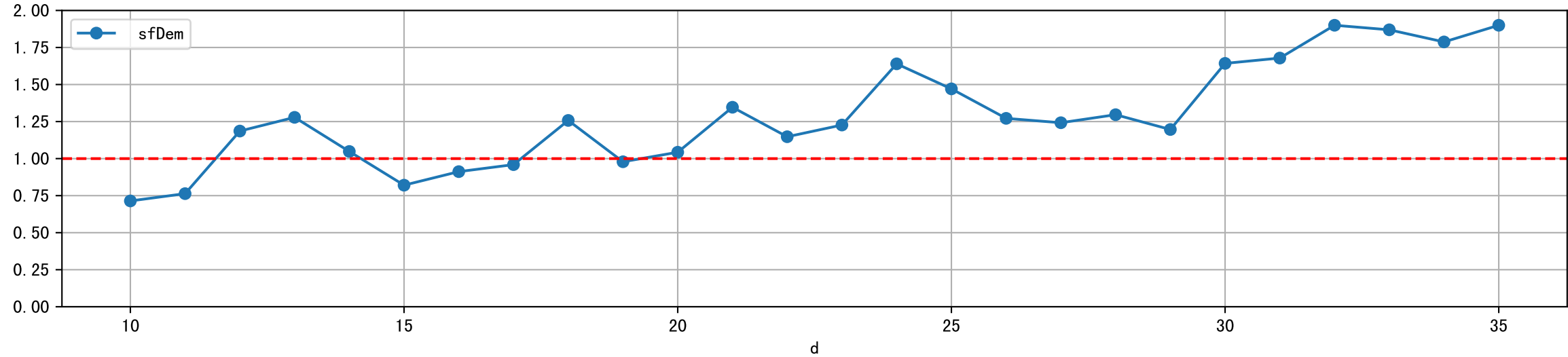
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DeltaTypeAbbr=Wei AvgByD

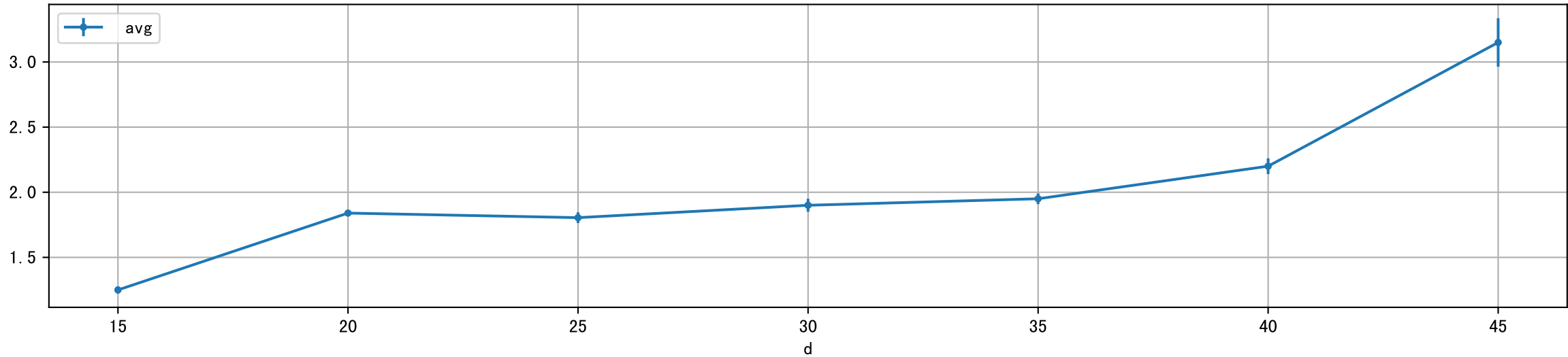


NdD: sfDem

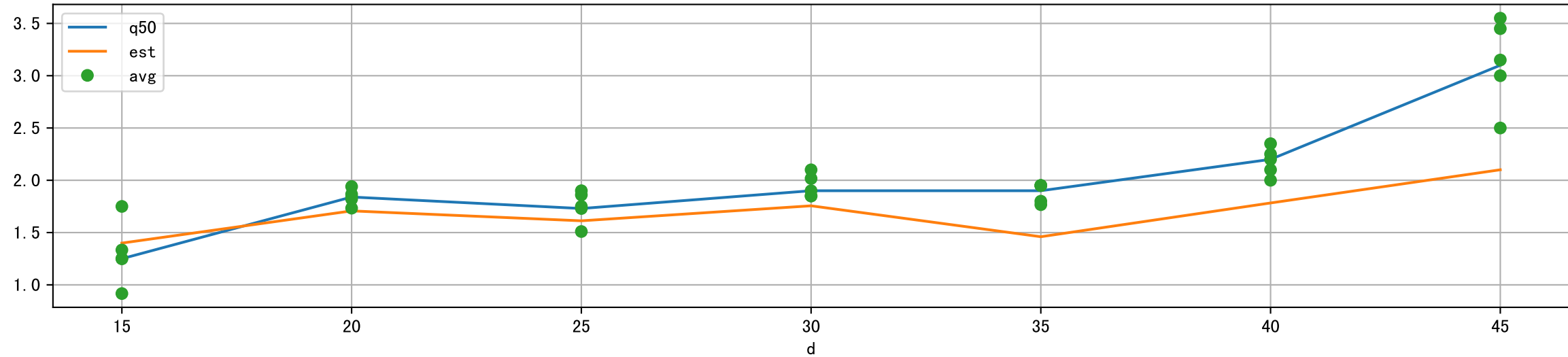




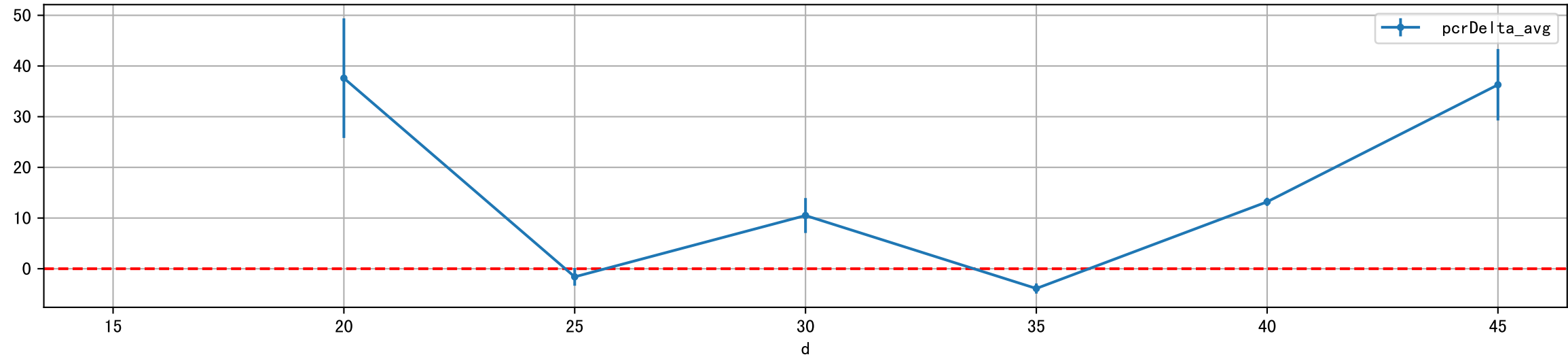
dStH: avg vs. d



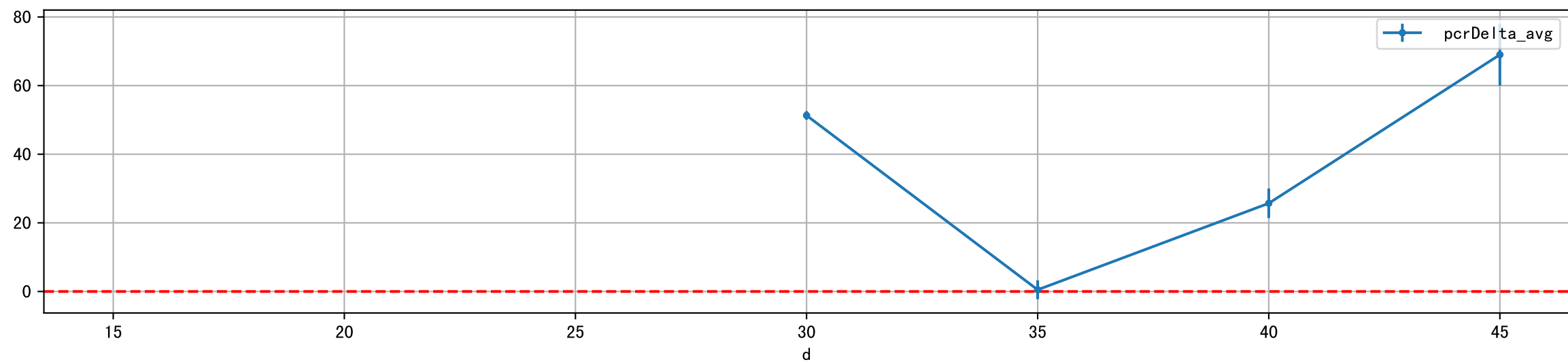
dStH: obsAvg vs obs0v@Q50



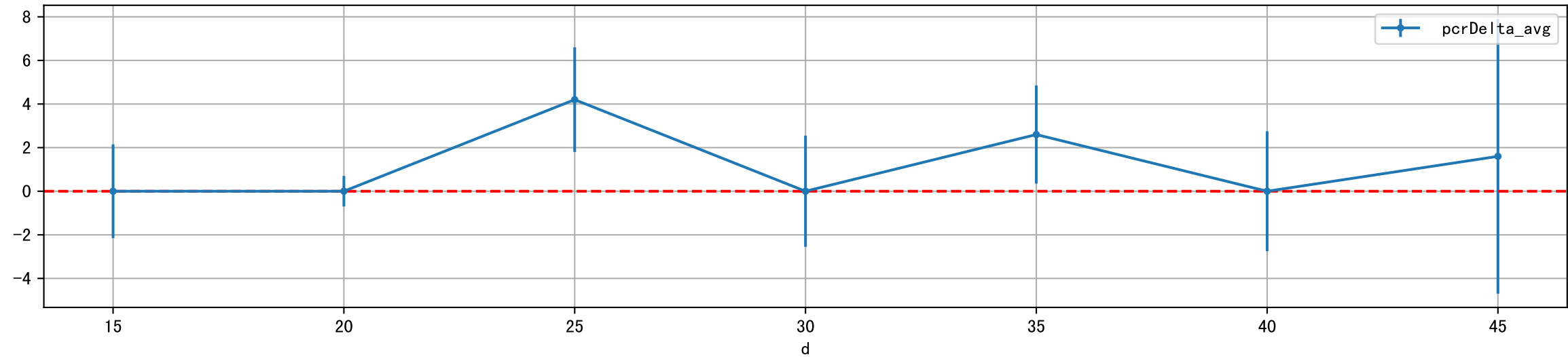
dStH: D_5d_StH



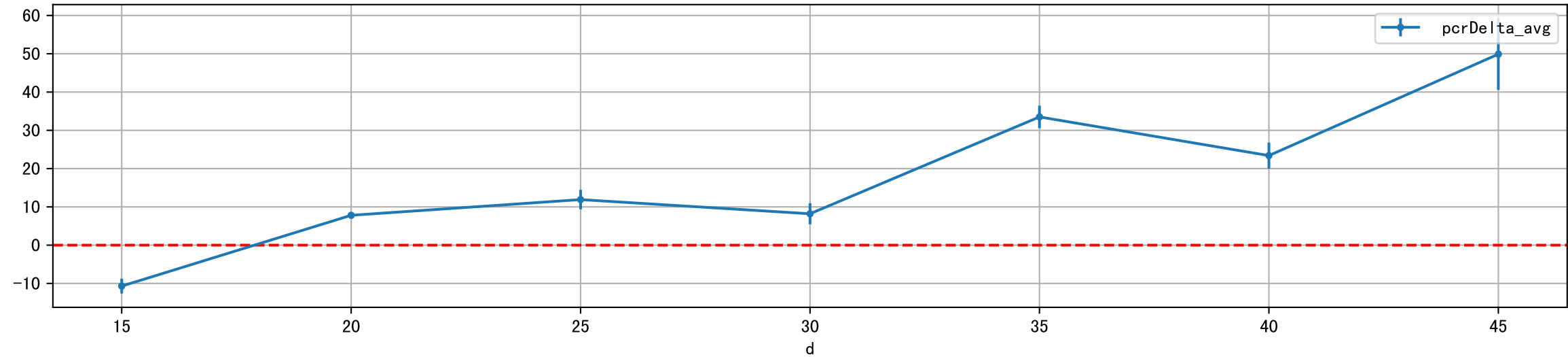
dStH: D_15d_StH



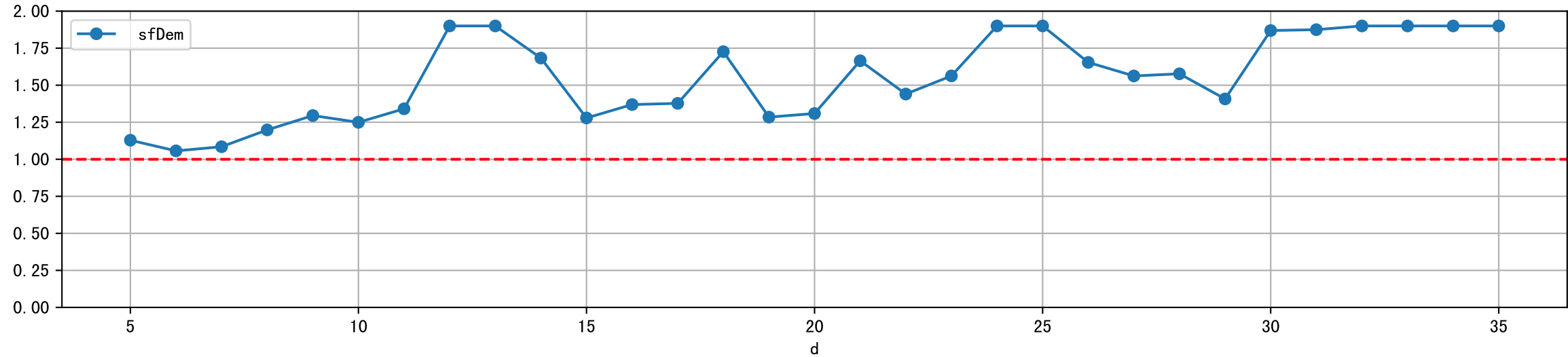
dStH: D_Q50_StH



dStH: D_Est_StH



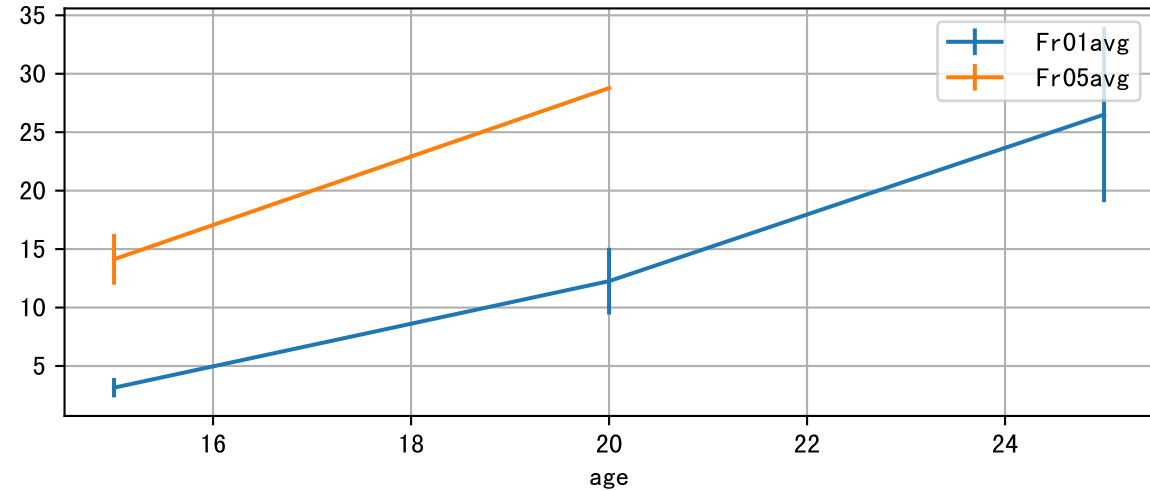
dStH: sfDem



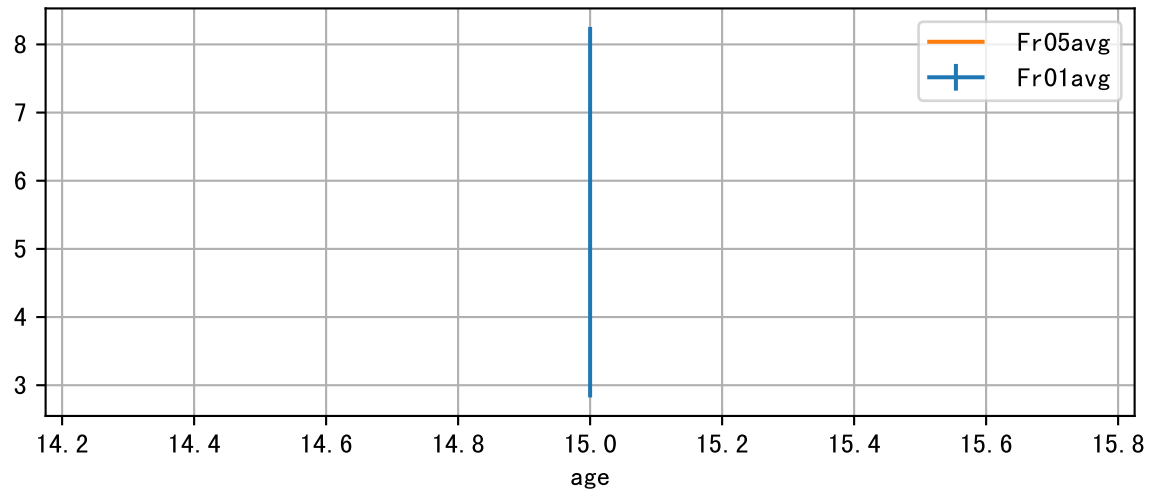


FrV: Fr01 vs Fr05 at each truss

organID=T01

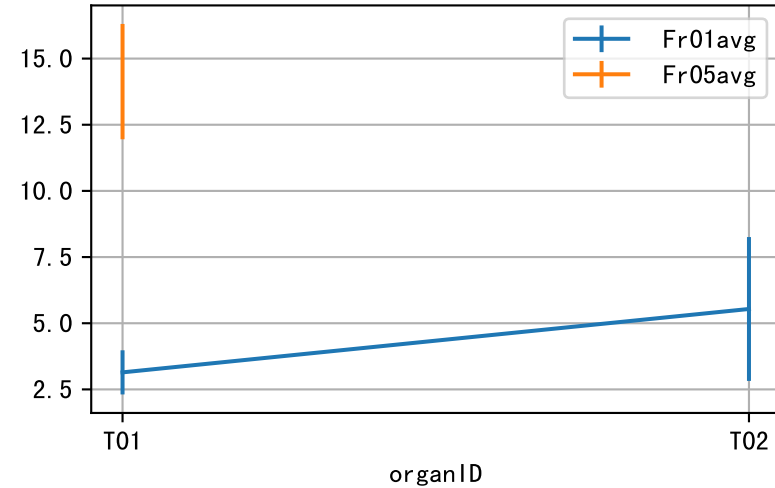


organID=T02

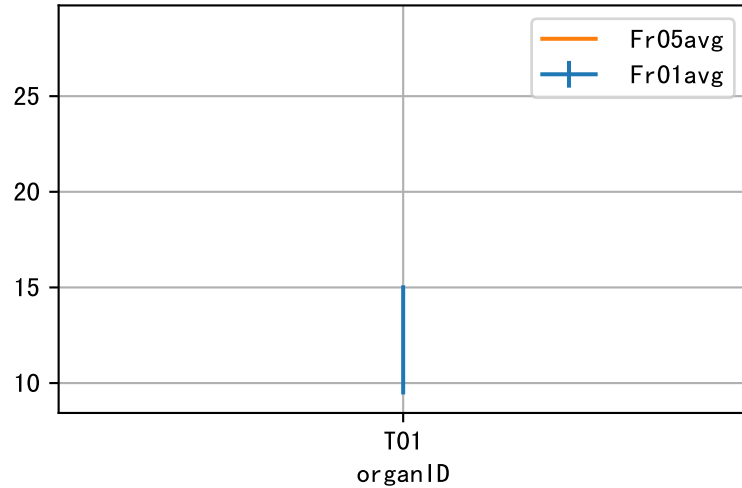


FrV trend at each age

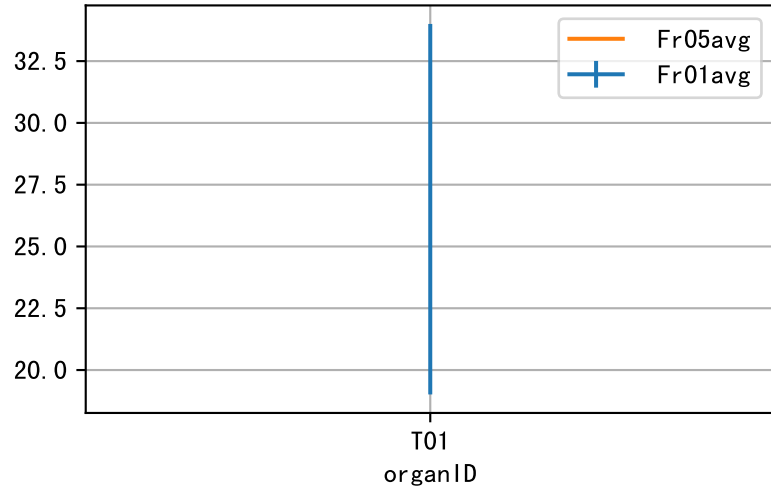
age=15



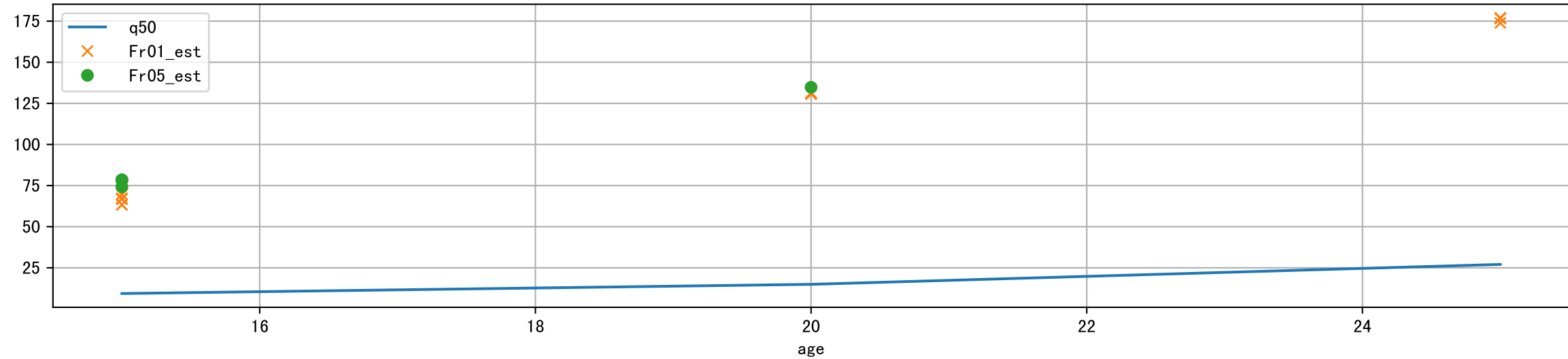
age=20



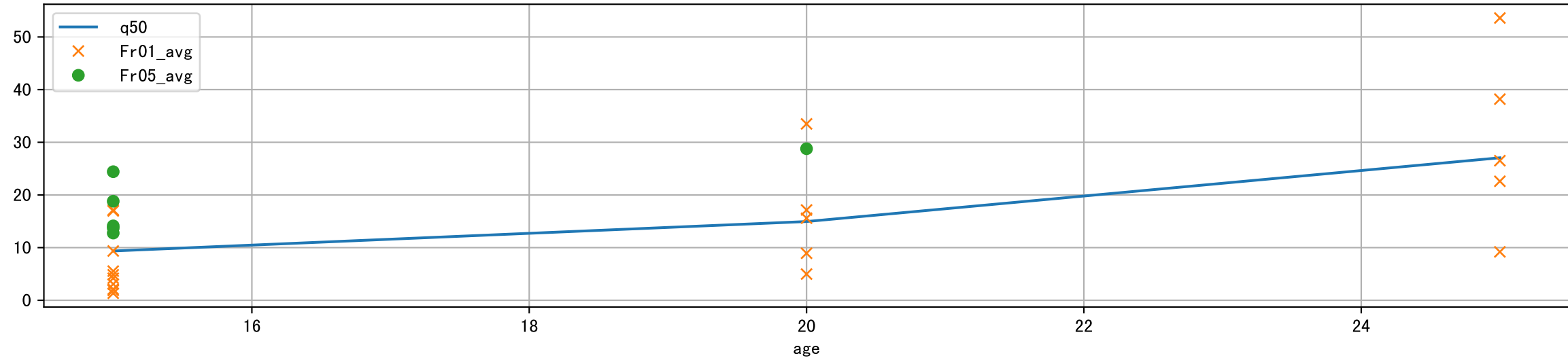
age=25



FrV: model Est vs obsFrV at Q90

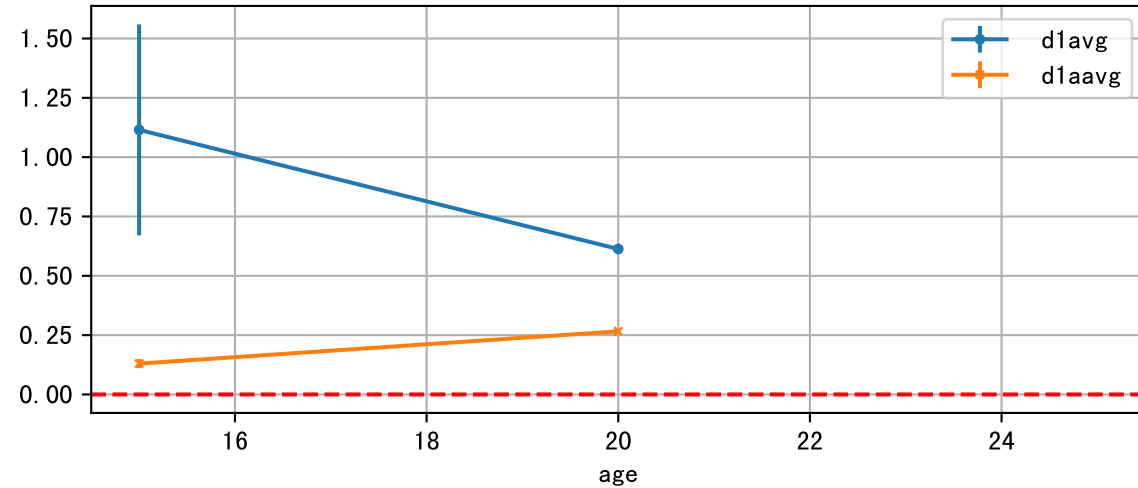


FrV: obsFrV vs obsFrV@Q90

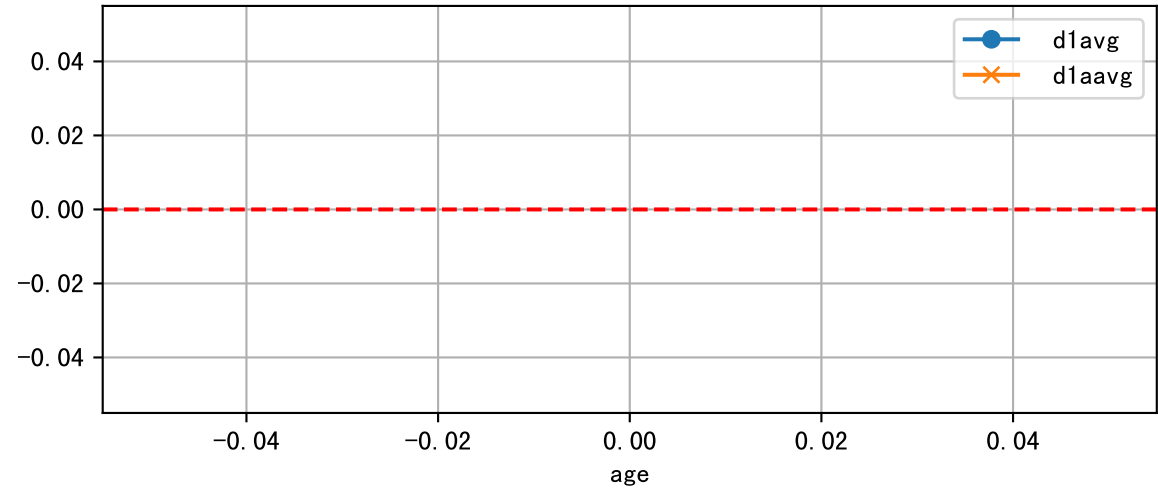


FrV: D_Fr1_FrV

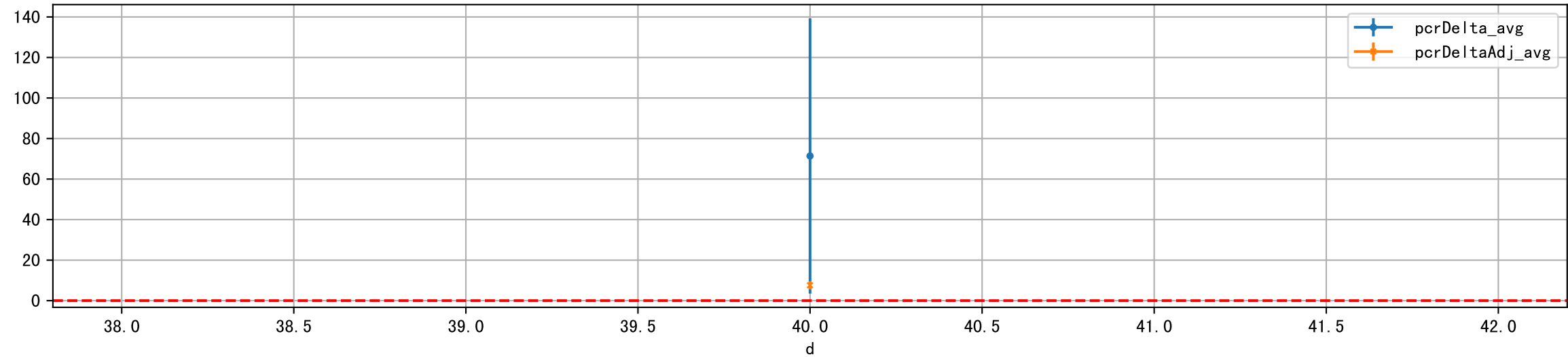
organID=1



organID=2

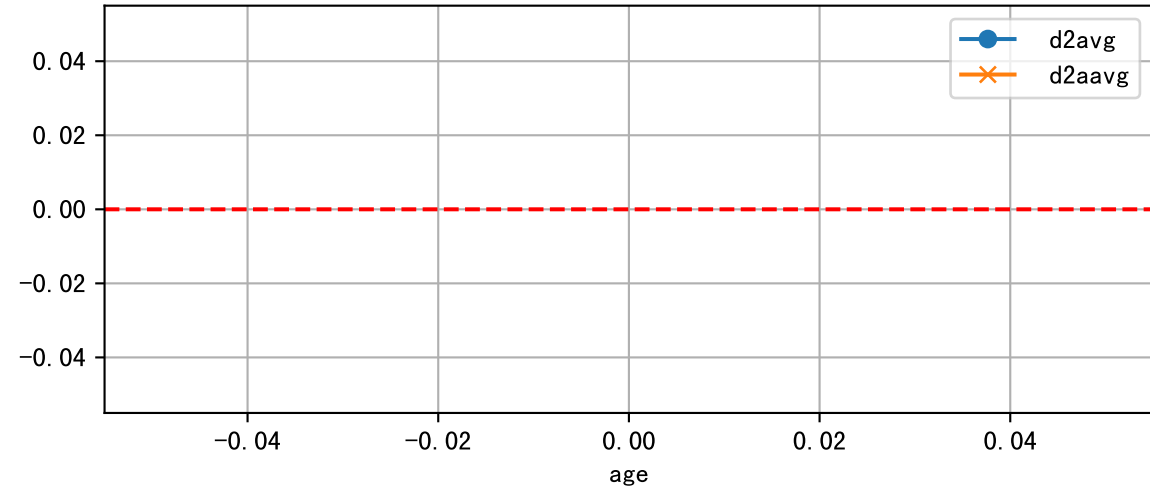


P9AE FrV: D_Fr1_FrV

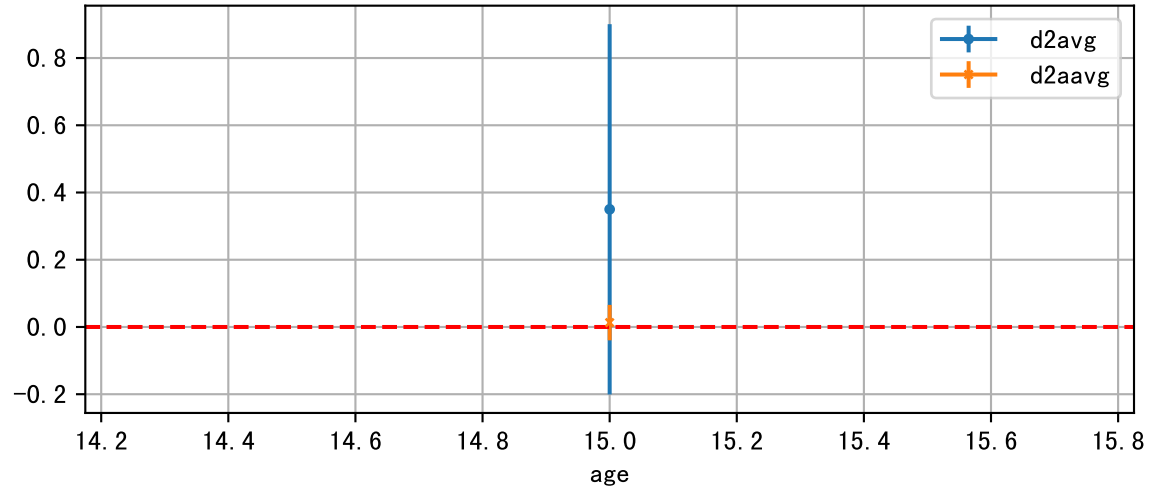


FrV: D_Ts_FrV

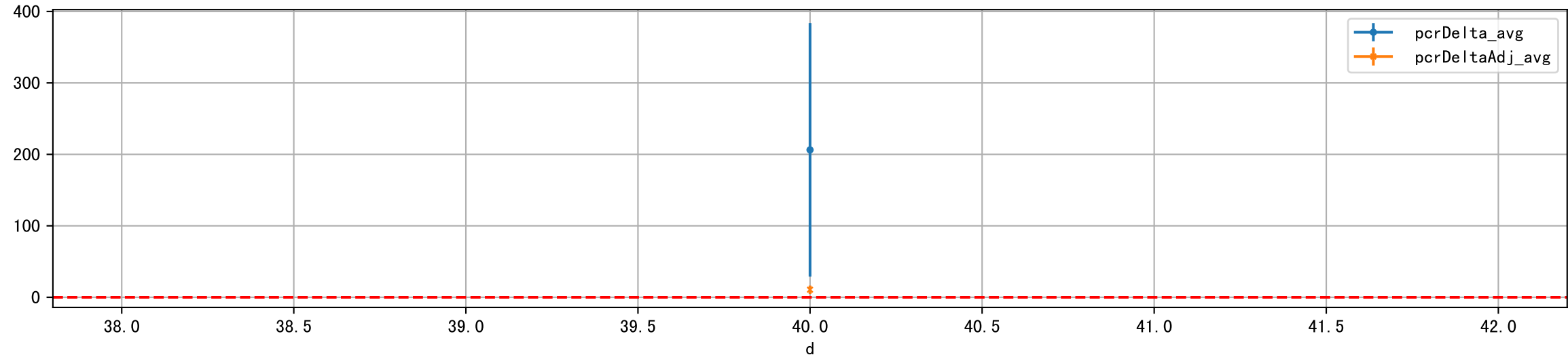
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organID=2

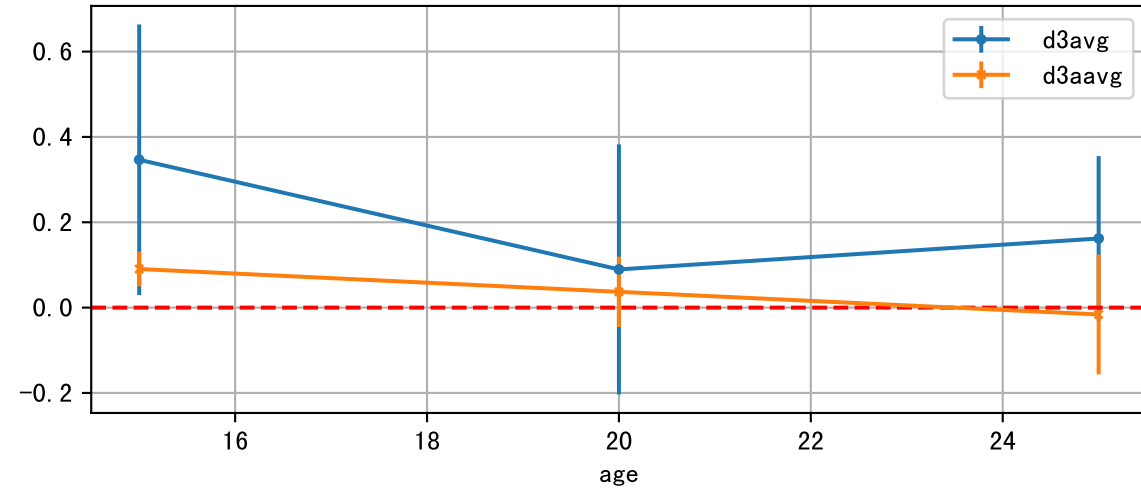


P9AE FrV: D_Ts_FrV

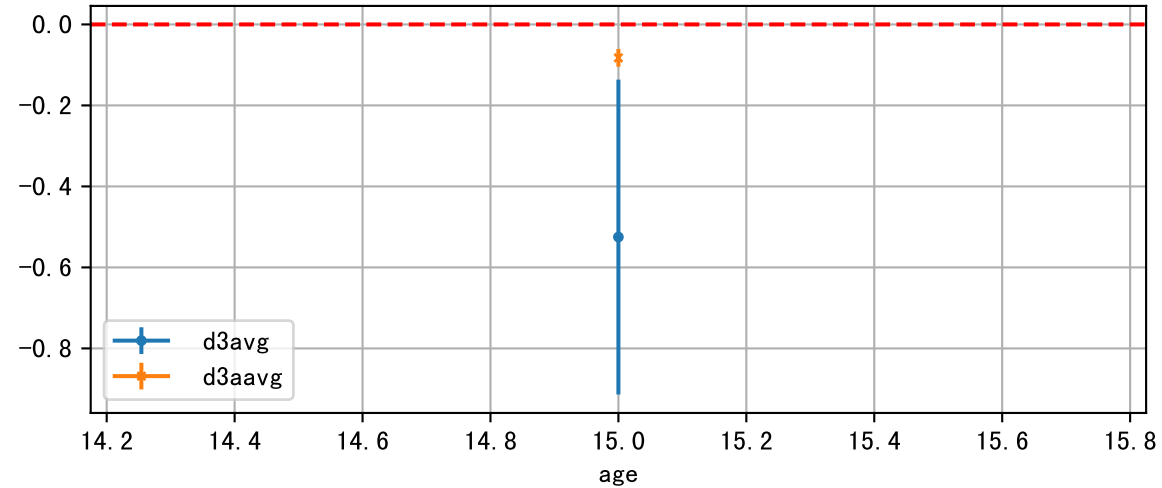


FrV: D_Q50_FrV

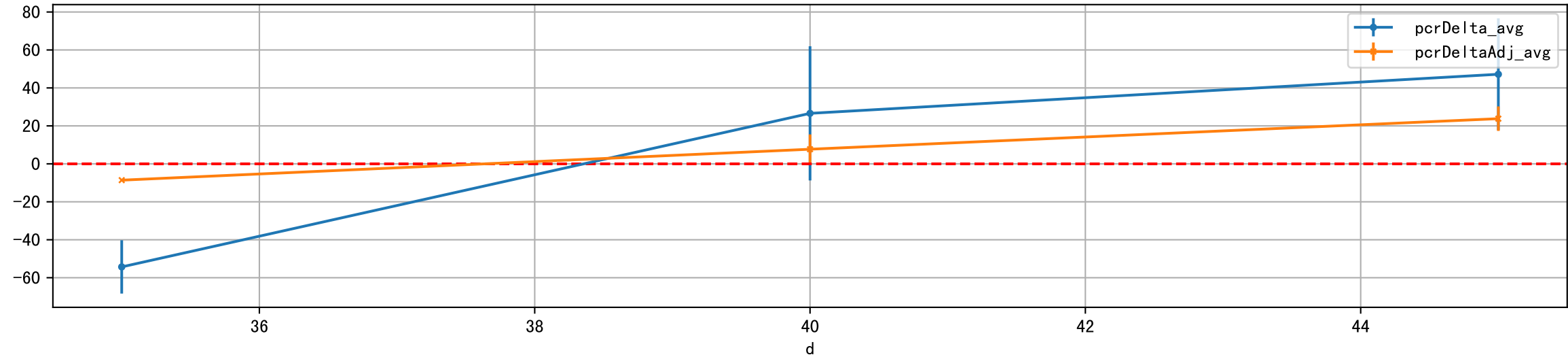
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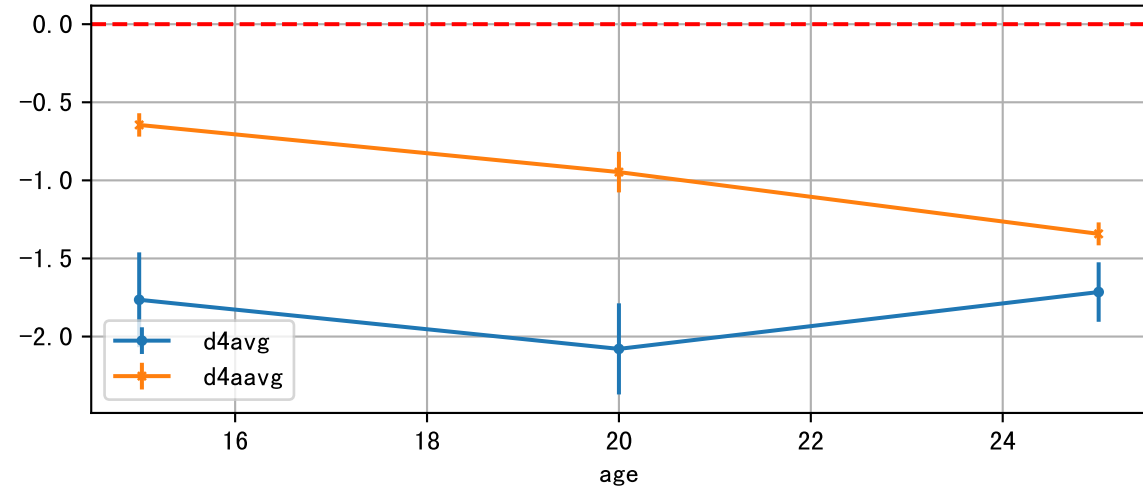


P9AE FrV: D_Q50_FrV



FrV: D_Est_FrV

organID=1



organID=2

