

L_n, L_x curves

ALQ Pos. 1

T_n, T_x curves



Cutheat – TL curves



IRSLT

IRSL/BOSL = 0.88%



IRSL curve (10 s)



help("Analyse_SAR_OSLdata")

unkown measurement





Fig. 4 – Bos & Wallinga (2012)





`help("CW2pLM")`



Fig. 4 – Bos & Wallinga (2012)





Fig. 4 – Bos & Wallinga (2012)



TL (UVVIS)



OSL (UVVIS)





Histogram



Histogram



No L_x curves detected

No T_x curves detected

help("ExampleData.Fading")

Signal Fading



Density: g-values (%/decade)



Growth curve

$D_e = 977.38 \pm 105.65$ | fit: EXP



D_e from MC simulation

$D_{eMC} = 984.66 \pm 105.65$ | quality = 99.3 %



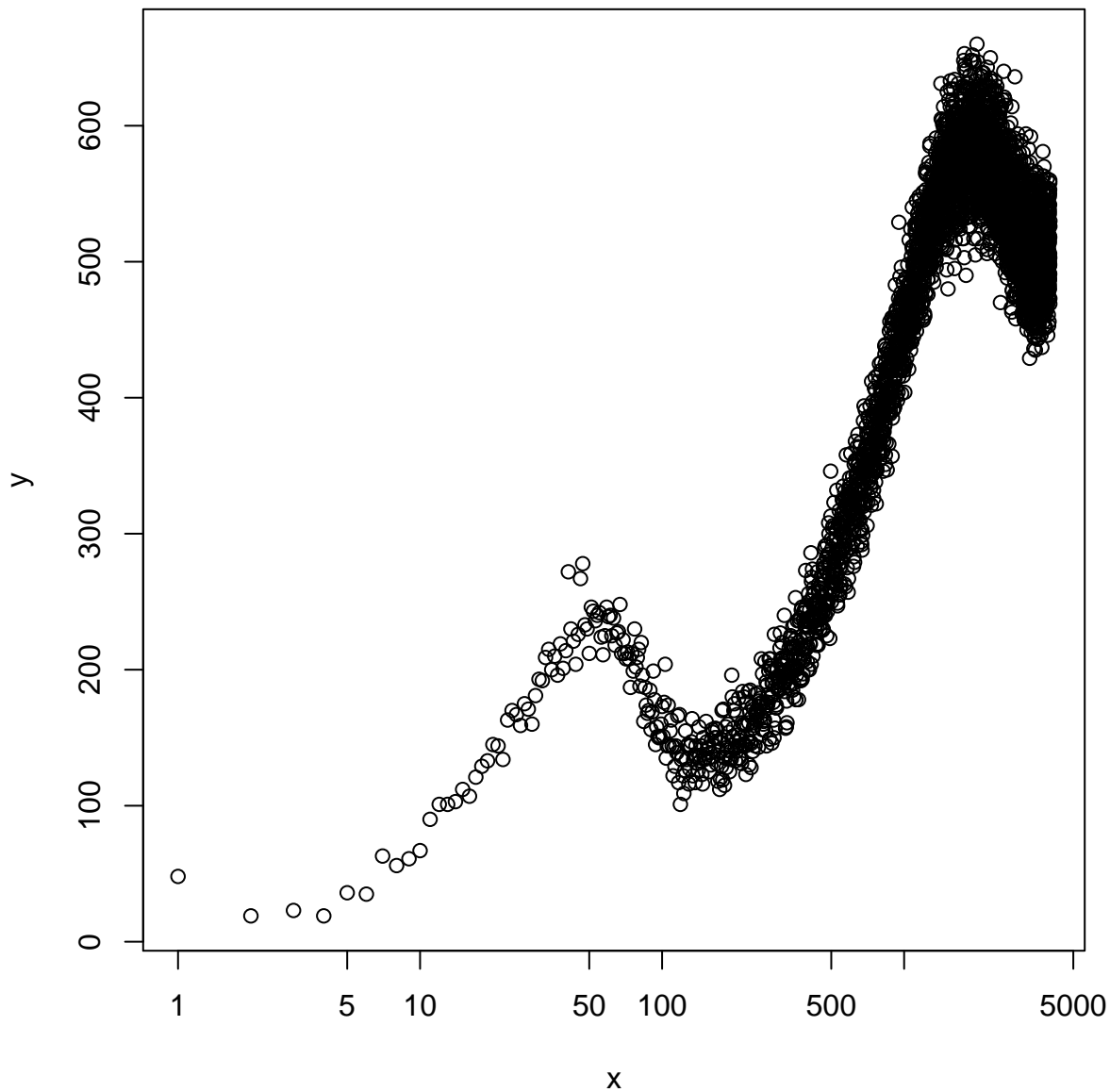
Test dose response



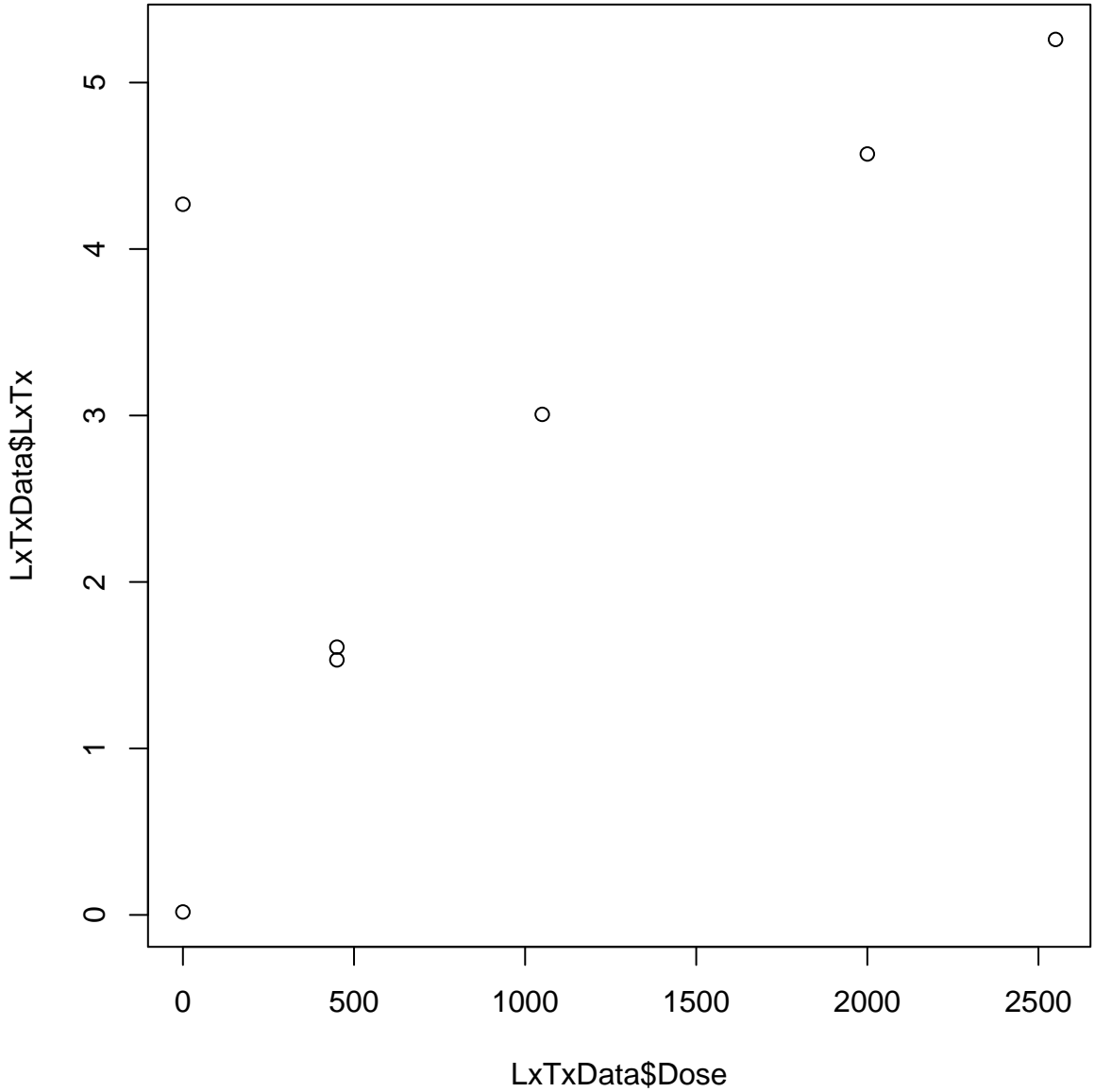
Dose [s]

NA

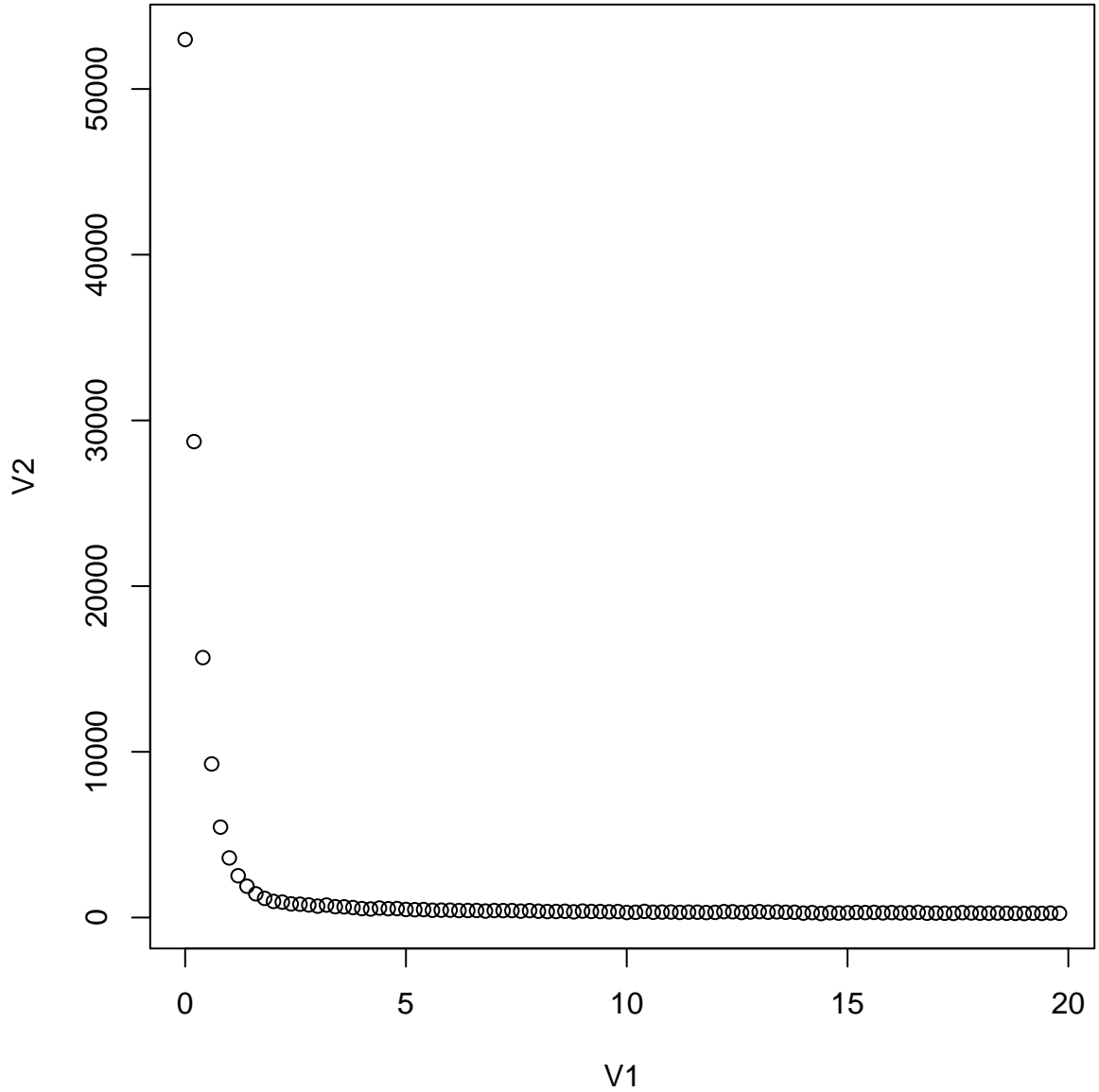
n = 100, valid fits = 100



`help("ExampleData.FittingLM")`



`help("ExampleData.LxTxData")`



`help("ExampleData.LxTxOSLData")`



`help("ExampleData.LxTxOSLData")`

RF

#1



RF

#2



[help\("ExampleData.RLum.Analysis"\)](#)

RLum.Data.Image





`help("ExampleData.SurfaceExposure")`



help("ExampleData.SurfaceExposure")



help("ExampleData.SurfaceExposure")



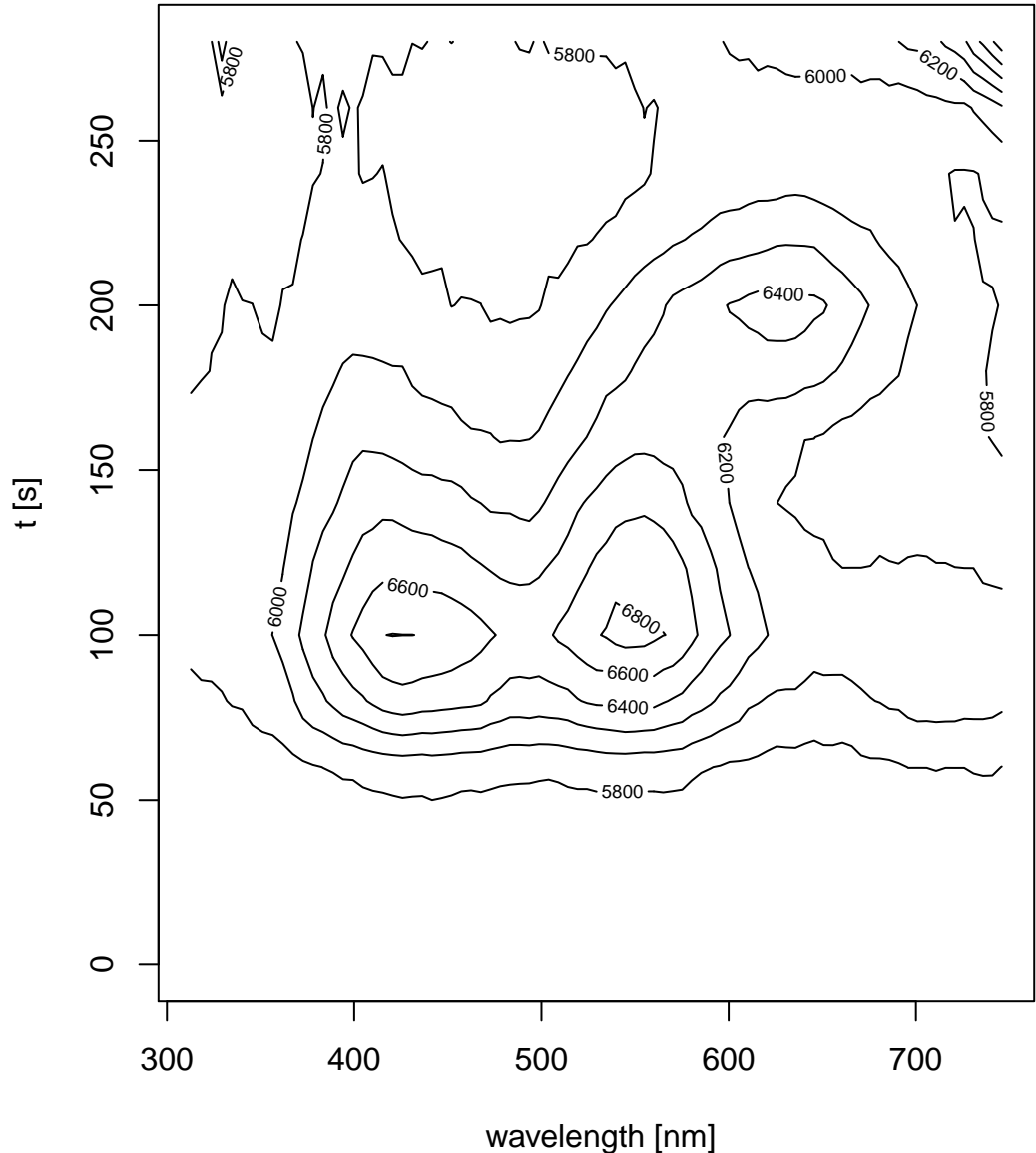
help("ExampleData.SurfaceExposure")

OSL (UVVIS)



help("ExampleData.XSYG")

RLum.Data.Spectrum



[help\("ExampleData.XSYG"\)](#)

USER

Record: 1



IRSL

Record: 1



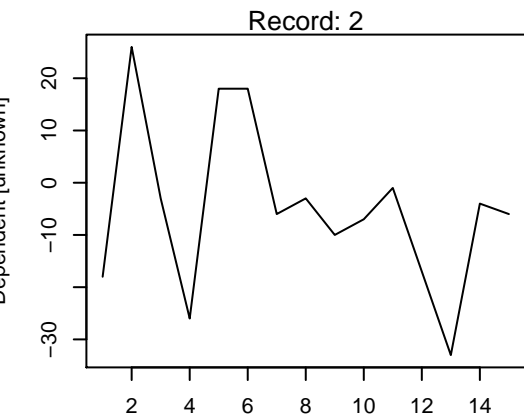
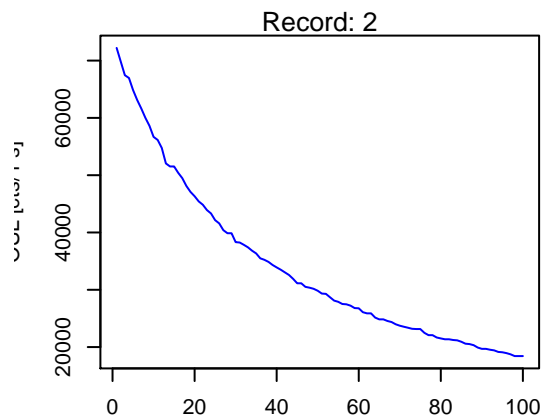
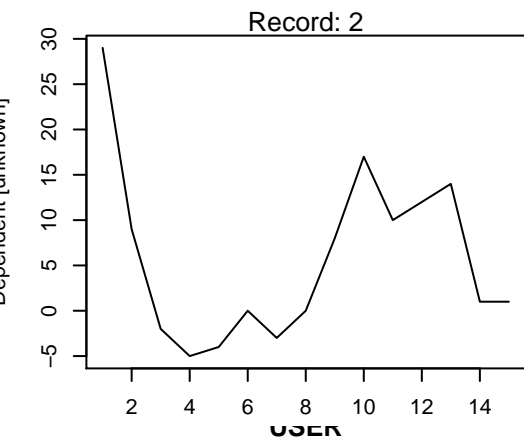
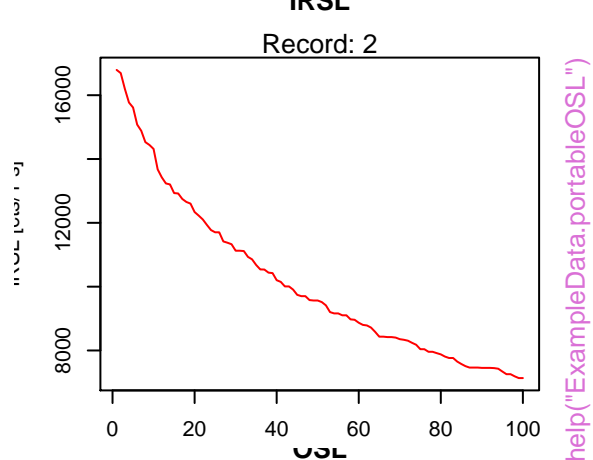
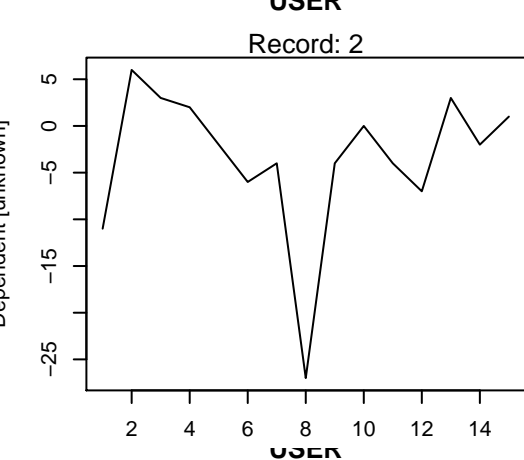
help("ExampleData.portableOSL")

Record: 1



Record: 1







USER

Record: 4



IRSL

Record: 4



help("ExampleData.portableOSL")

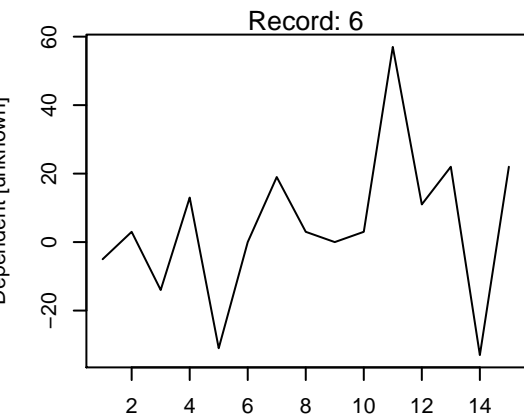
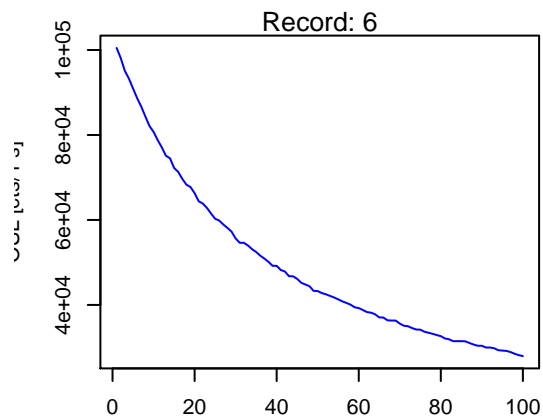
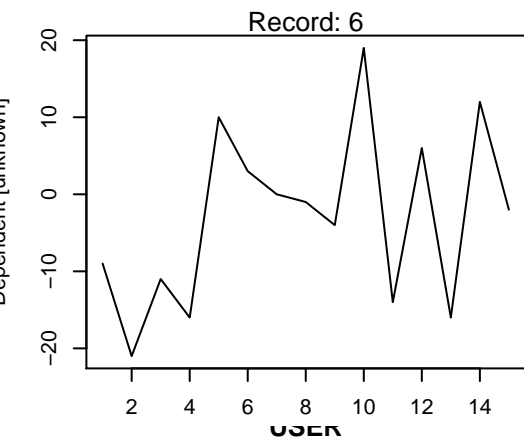
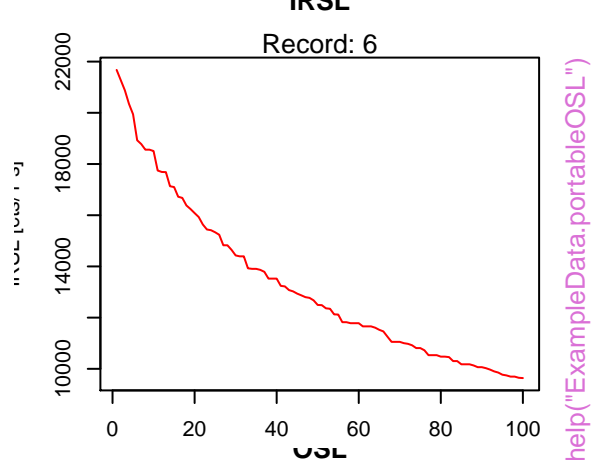
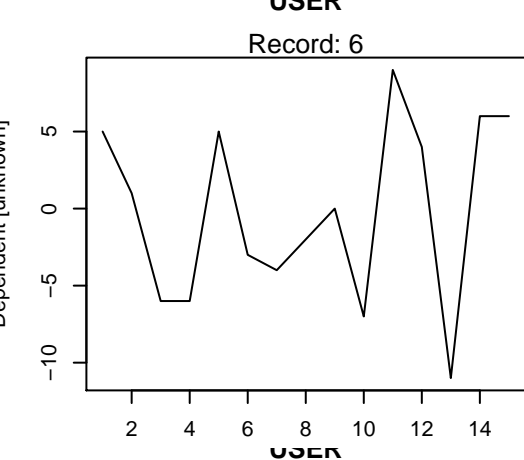
Record: 4



Record: 4







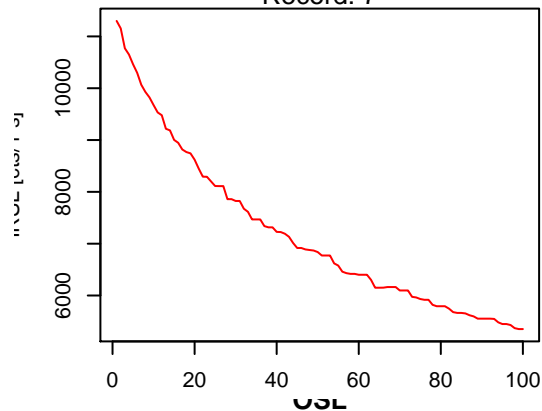
USER

Record: 7



IRSL

Record: 7

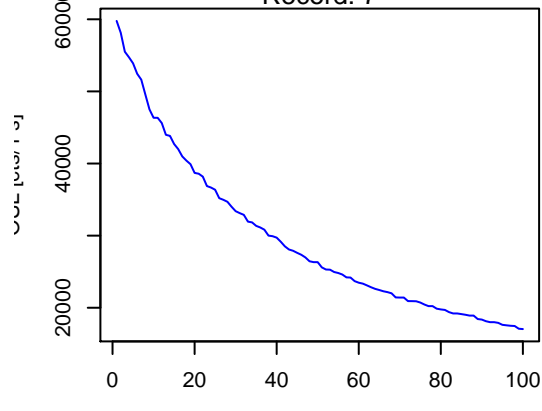


help("ExampleData.portableOSL")

Record: 7



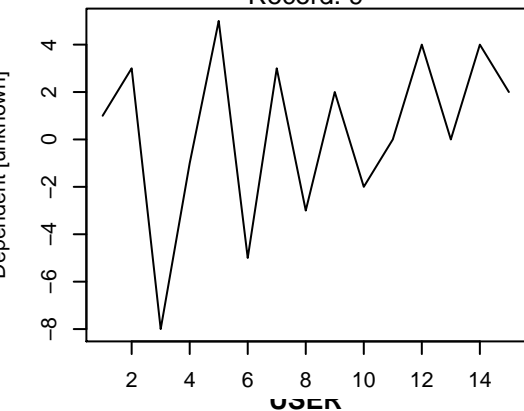
Record: 7





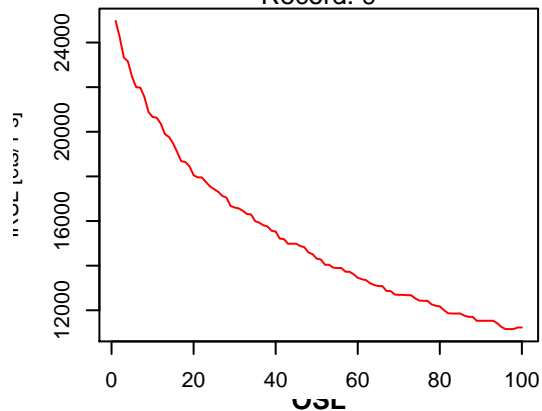
USER

Record: 9



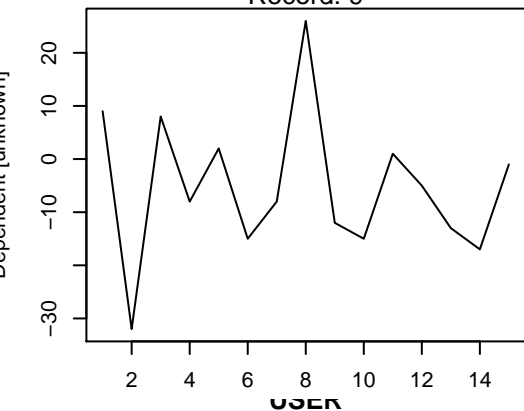
IRSL

Record: 9

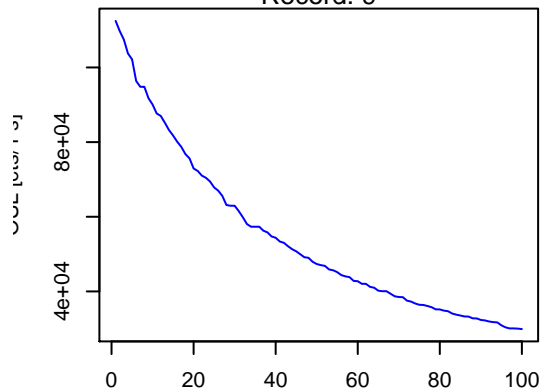


help("ExampleData.portableOSL")

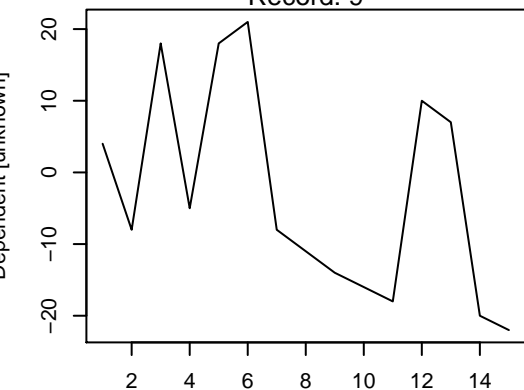
Record: 9



Record: 9

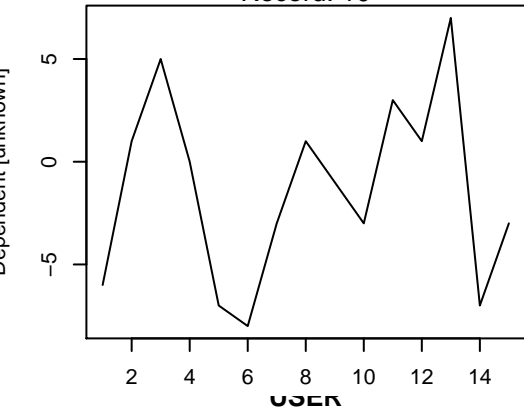


Record: 9



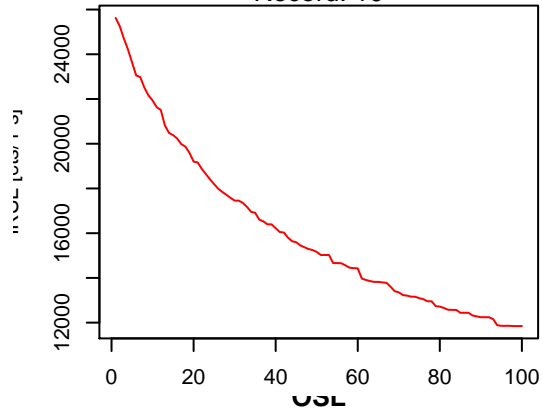
USER

Record: 10



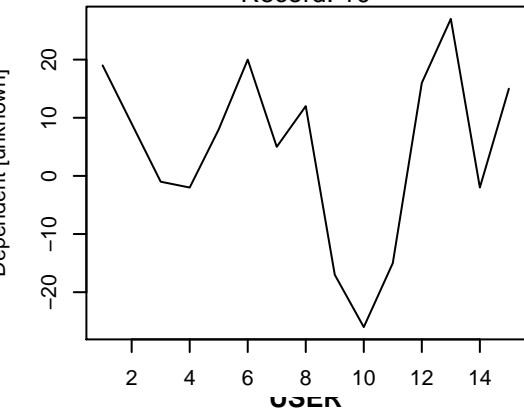
IRSL

Record: 10

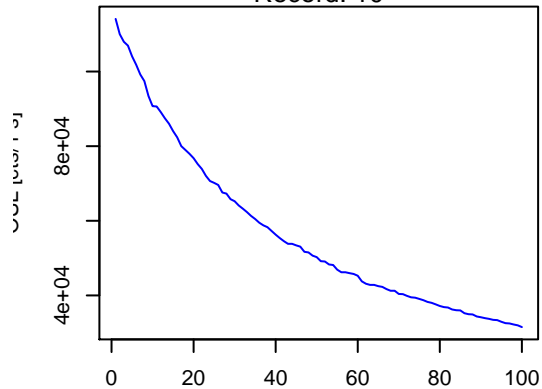


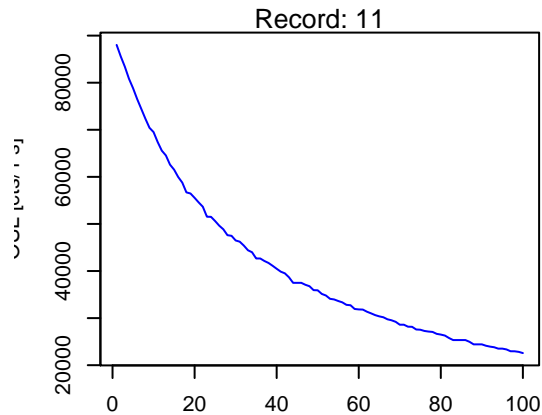
help("ExampleData.portableOSL")

Record: 10



Record: 10





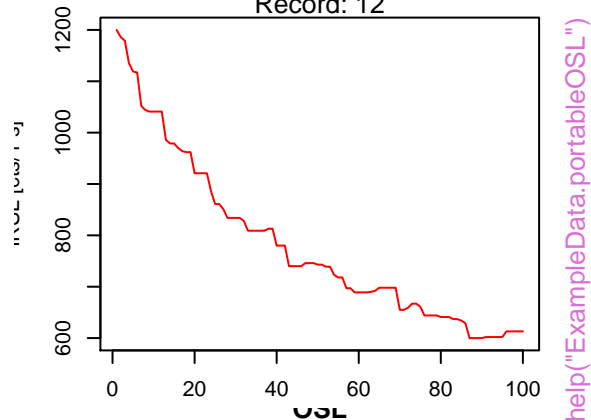
USER

Record: 12



IRSL

Record: 12

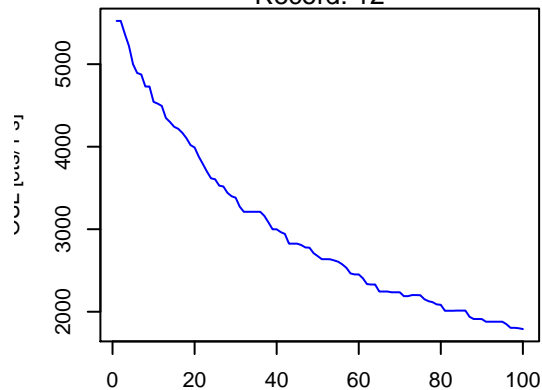


help("ExampleData.portableOSL")

Record: 12



Record: 12



USER

Record: 13



Record: 13



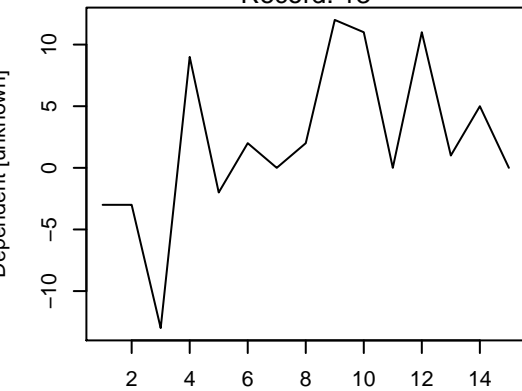
Record: 13



Record: 13



Record: 13



help("ExampleData.portableOSL")

USER

Record: 14



IRSL

Record: 14



help("ExampleData.portableOSL")

Record: 14



Record: 14



USER

Record: 1



IRSL

Record: 1



help("PSL2Riseo.BinfileData")

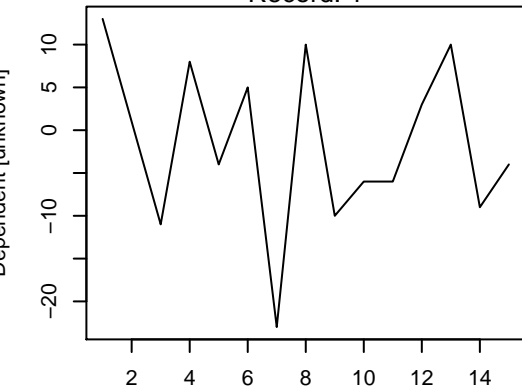
Record: 1



Record: 1



Record: 1



USER

Record: 2



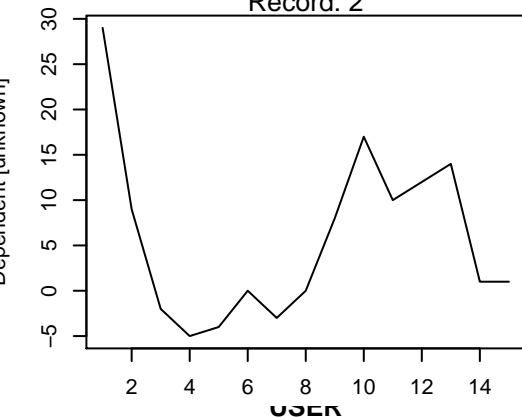
IRSL

Record: 2

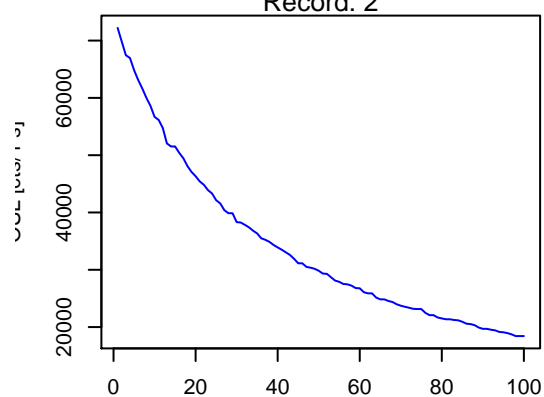


help("PSL2Riseo.BinfileData")

Record: 2



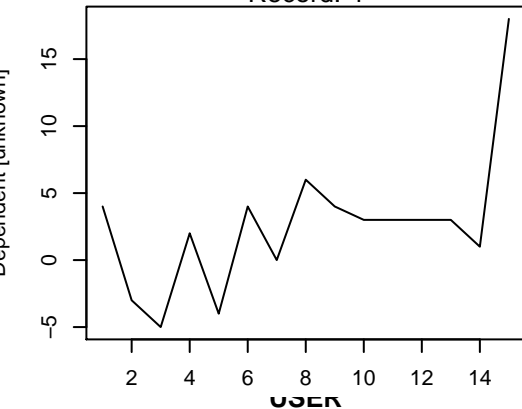
Record: 2



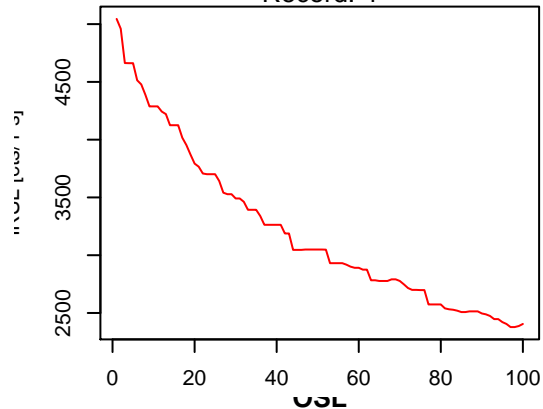


USER

Record: 4

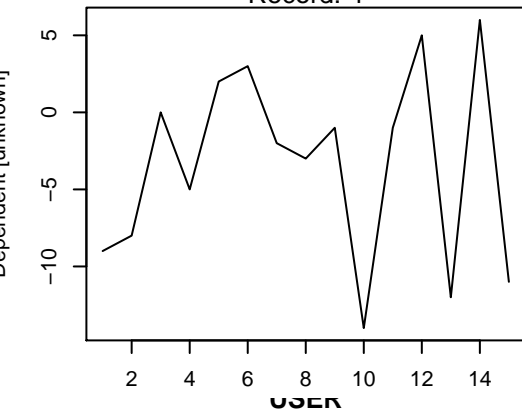


Record: 4

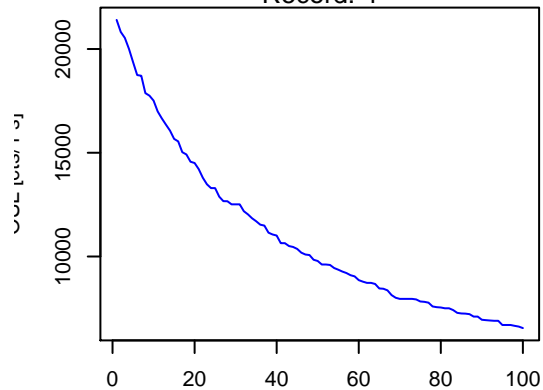


help("PSL2Risee.BINfileData")

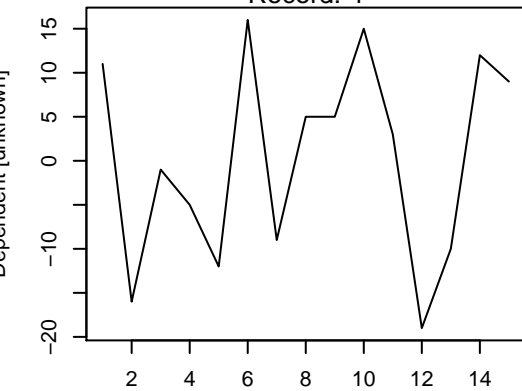
Record: 4



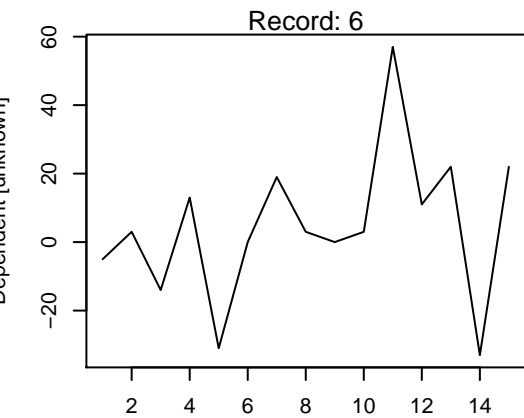
Record: 4



Record: 4







USER

Record: 7



IRSL

Record: 7



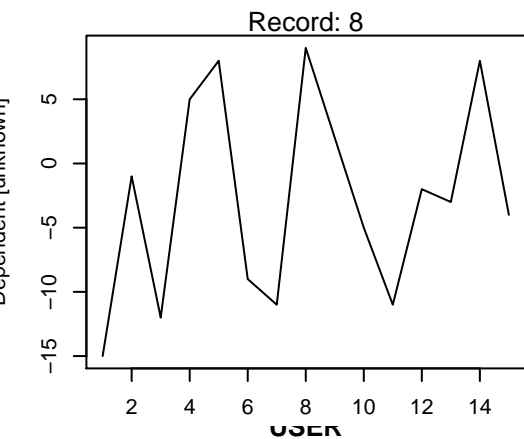
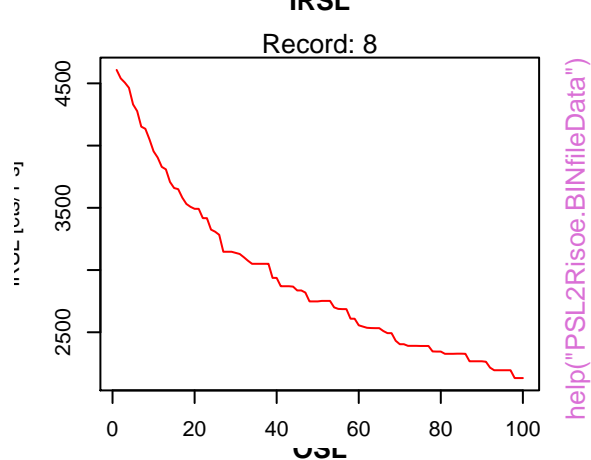
help("PSL2Riseo.BinfileData")

Record: 7



Record: 7









USER

Record: 11



IRSL

Record: 11



help("PSL2Riseo.BINfileData")

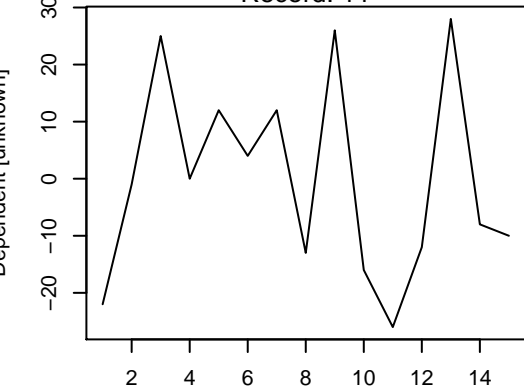
Record: 11



Record: 11



Record: 11



USER

Record: 12



IRSL

Record: 12



Record: 12

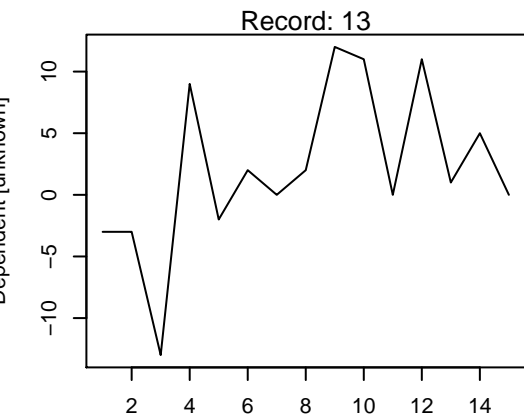


Record: 12



Record: 12





USER



IRSL



help("PSL2Riseo.BINfileData")



Sample Carousel Crosstalk



Irradiation Time Correction

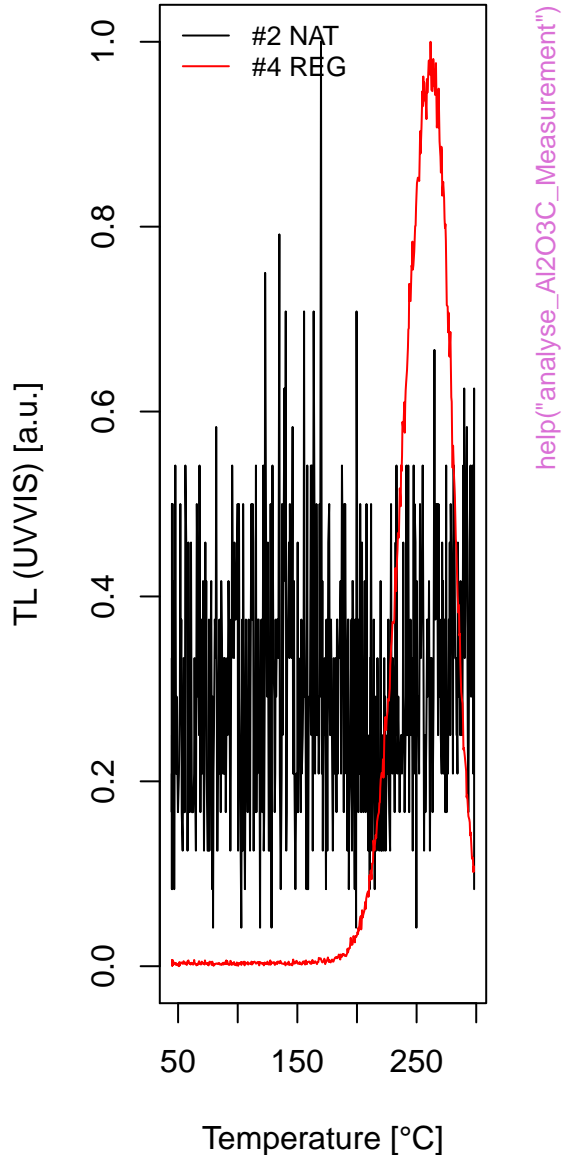


help("analyse_Al2O3C_ITC")

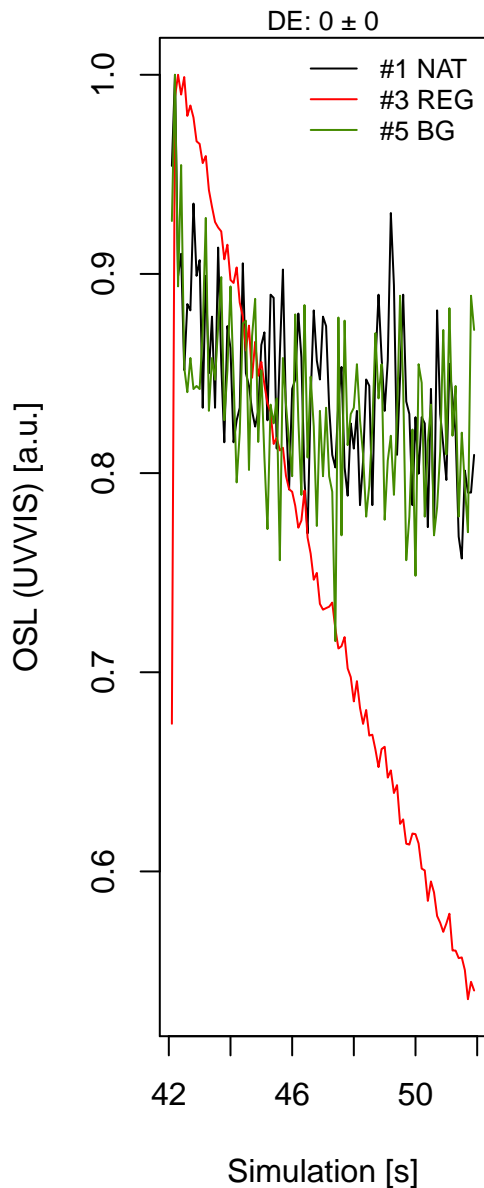
ALQ POS: 1 | OSL



ALQ POS: 1 | T#1



ALQ POS: 2 | OSL



ALQ POS: 2 | T#2



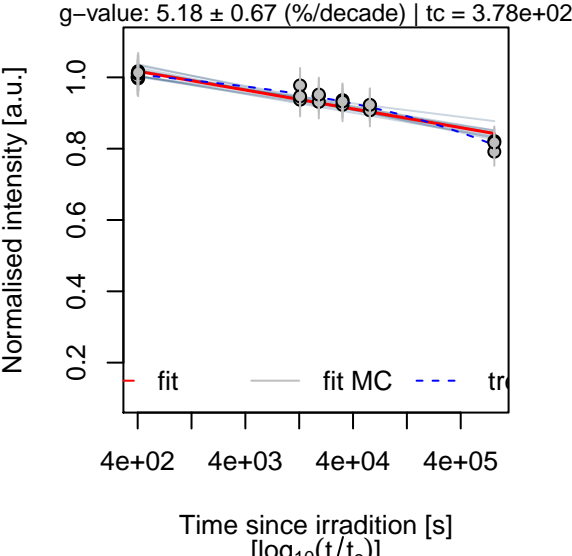
help("analyse_Al2O3C_Measurement")

No L_x curves detected

No T_x curves detected

help("analyse_FadingMeasurement")

Signal Fading



Density: g-values (%/decade)



IR-RF

$D_e = 623.25$ [600.63 ; 635.8]



IR-RF

$D_e = 610.17$ [567.19 ; 653.15]



TL previous L_n, L_x curvesTL previous T_n, T_x curves L_n, L_x curves T_n, T_x curves

●
Natural
(0)

●
R1
(450)

●
R2
(1050)

●
R3
(2000)

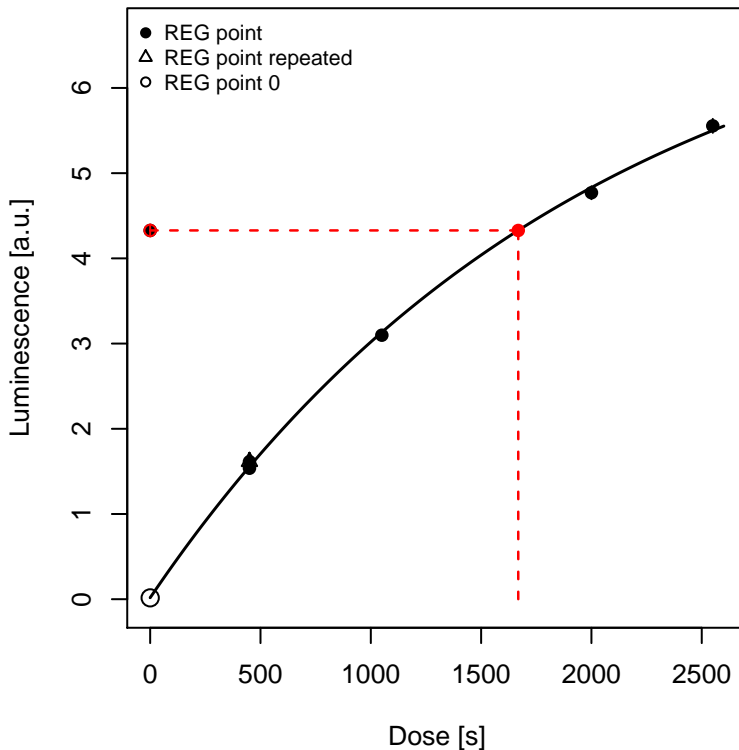
●
R4
(2550)

●
R5
(450)

●
R0
(0)

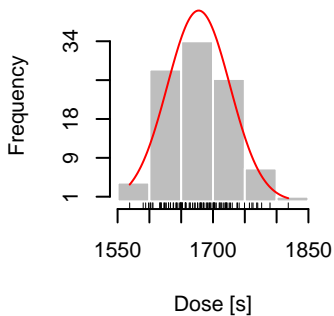
Growth curve

$D_e = 1668.25 \pm 49.22$ | fit: EXP

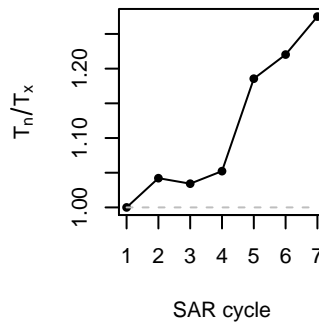


D_e from MC simulation

$D_{eMC} = 1677.48 \pm 49.22$ | quality = 99.4 %



Test dose response



Rejection criteria



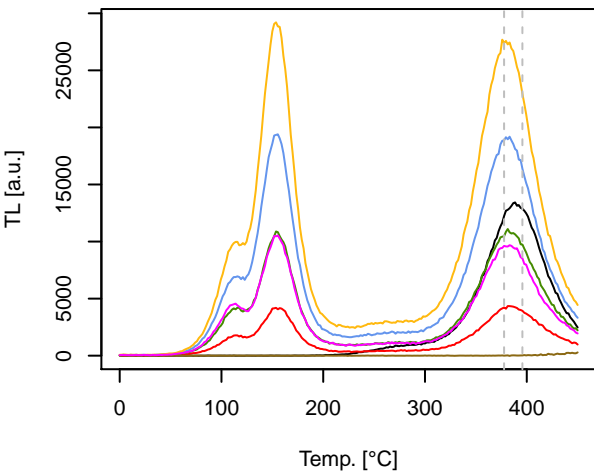
- 0.2 + 0.2

IRSL

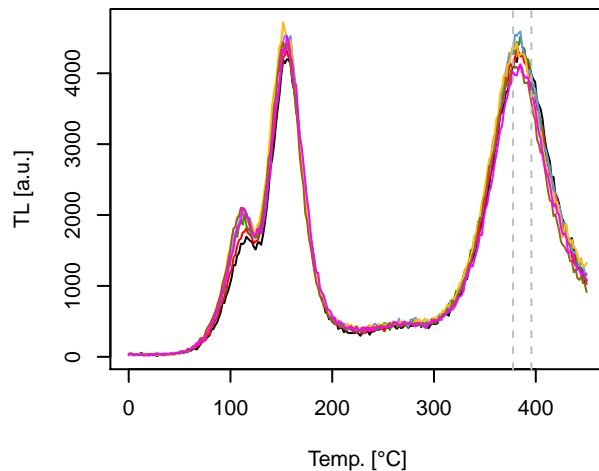


[help\("analyse_SAR.CWOSL"\)](#)

L_n, L_x curves



T_n, T_x curves



Plateau test L_n, L_x curves

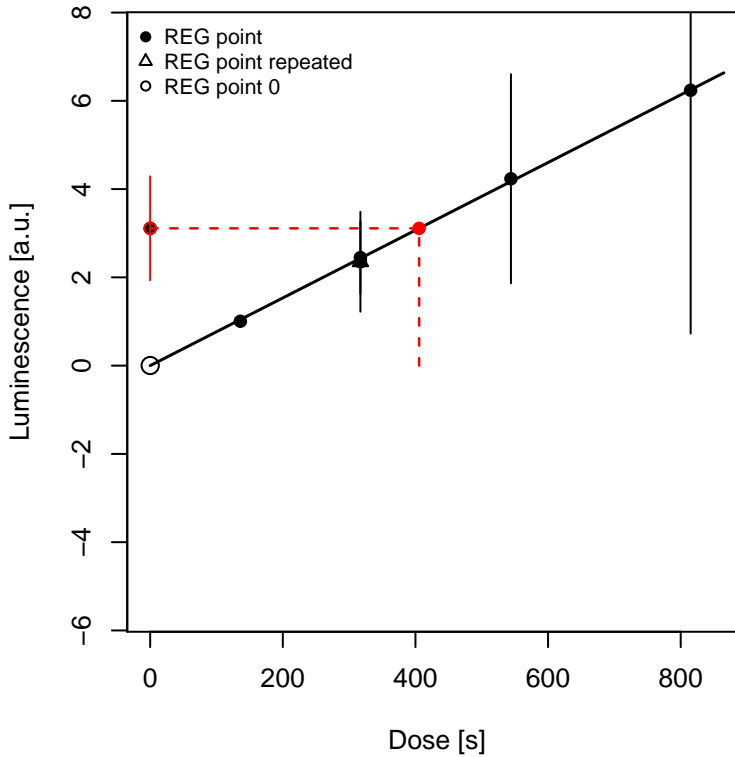


plateau Test T_n, T_x curves



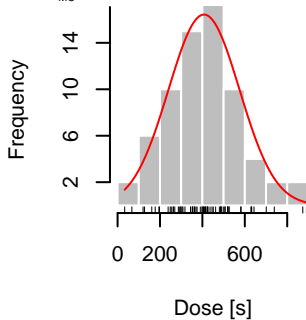
Growth curve

$D_e = 405.58 \pm 167.51$ | fit: EXP

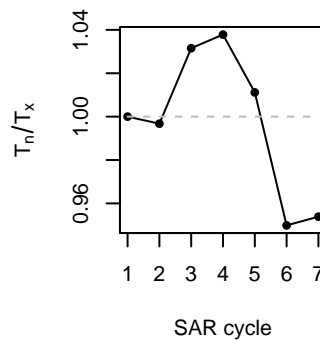


D_e from MC simulation

$D_{eMC} = 407.59 \pm 167.51$ | quality = 99.5 %



Test dose response



Pseudo pIRIR data set based on quartz OSL

TL
pseudolRSL1
pseudolRSL2

help("analyse_pIRIRSequence")

Pseudo pIRIR data set based on quartz OSL



Pseudo pIRIR data set based on quartz OSL



Pseudo pIRIR data set based on quartz OSL



Pseudo pIRIR data set based on quartz OSL



Pseudo pIRIR data set based on quartz OSL

$D_e = 1668.25 \pm 41.38$ | fit: EXP



D_e from MC simulation

D_{eMC} = 1666.57 ± 41.38 | quality = 99.9 %



help("analyse_pIRIRSequence")

Test dose response



Pseudo pIRIR data set based on quartz OSL



Pseudo pIRIR data set based on quartz OSL





Pseudo pIRIR data set based on quartz OSL

$D_e = 1668.25 \pm 47.59$ | fit: EXP



help("analyse_pIRIRSequence")

D_e from MC simulation

D_{e,MC} = 1669.37 ± 47.59 | quality = 99.9 %



Dose [s]

n = 100 , valid fits = 100

help("analyse_pIRSequence")

Test dose response



Summarised Dose Response Curves



Sensitivity change



Rejection criteria



USER combined



IRSL combined



help("analyse_portableOSL")

OSL combined





OSL



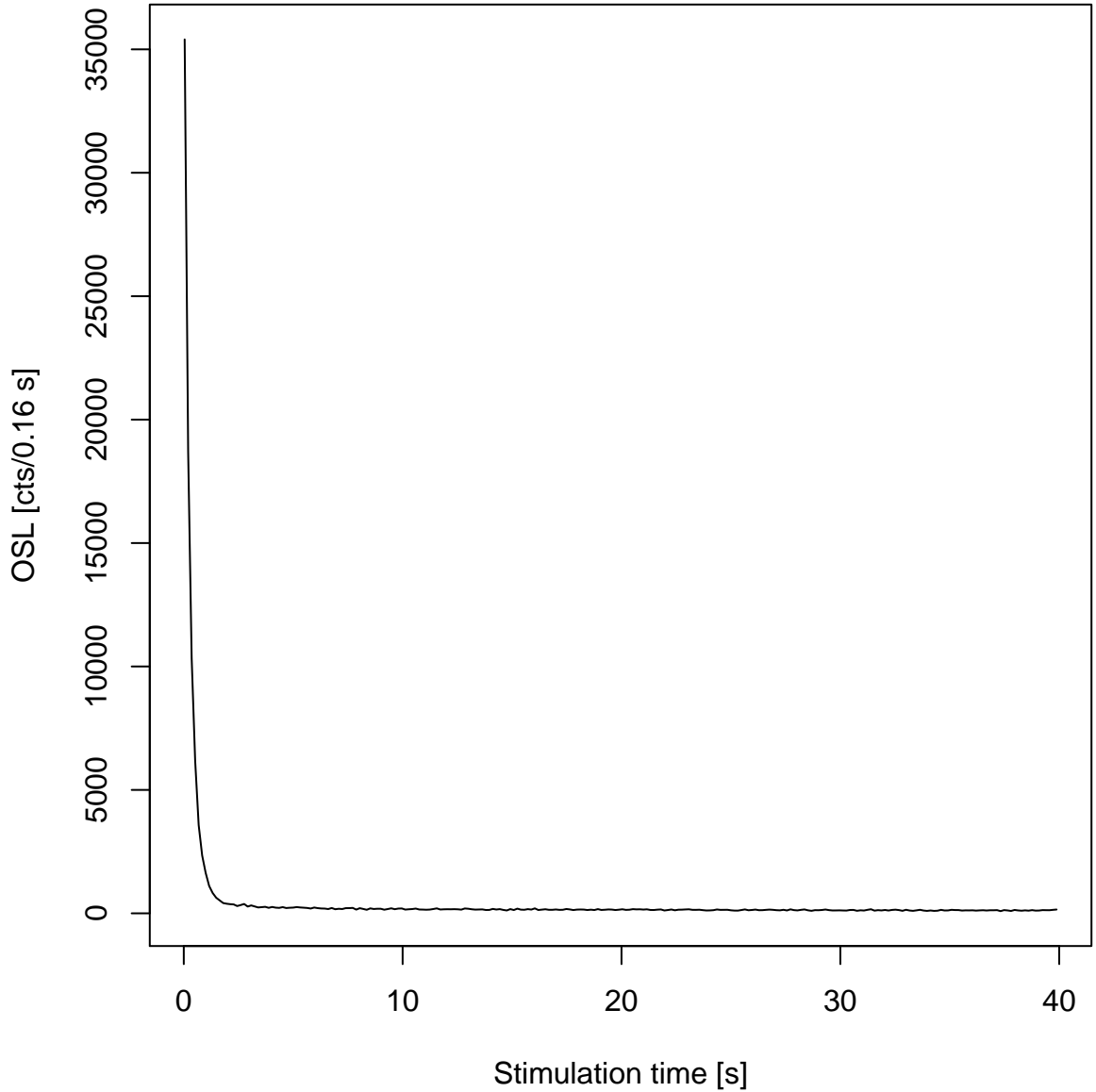
`help("bin_RLum.Data")`

OSL



help("bin_RLum.Data")

OSL



help("bin_RLum.Data")

Monte Carlo Simulation

$$n = \left| \hat{\mu} = 43 \mid \hat{\sigma} = 20 \mid \frac{\hat{\sigma}}{\sqrt{n}} = 2 \mid v = 0.73 \right|$$



Observed: Equivalent dose

n = 56



Bootstrapping: Average Dose

n = 500



Bootstrapping: Sigma_d

n = 500



help("calc_AverageDose")

D_e distribution

n = 56 | in 2 sigma = 53.6 %

Standardised estimate

2
0
-2

D_e [Gy]

help("calc_AverageDose")

help("calc_AverageDose")

100

80

60

40

20

Relative standard error (%)

20

10

6.7

0

5

10

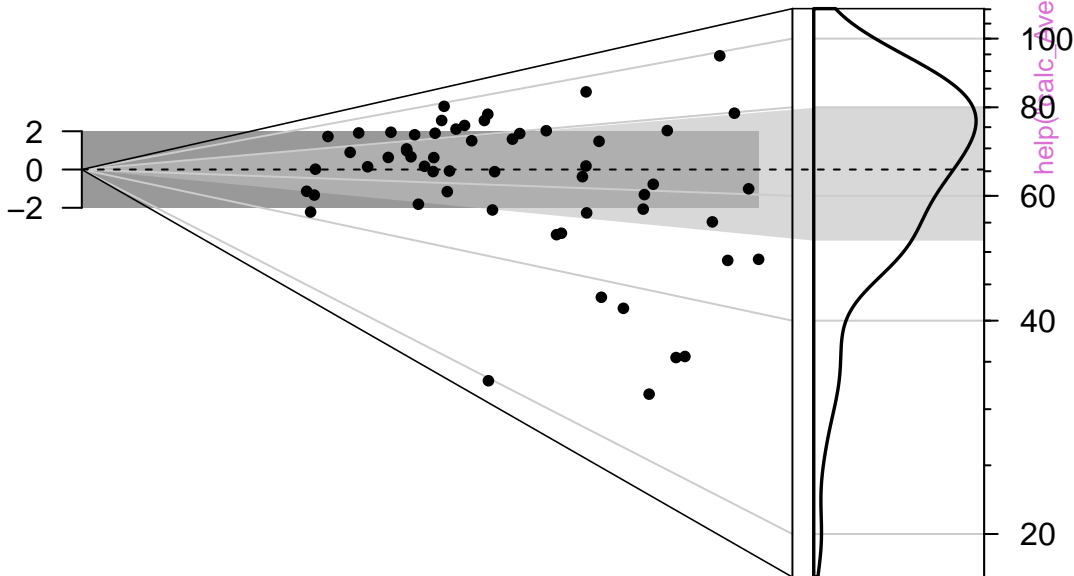
15

0

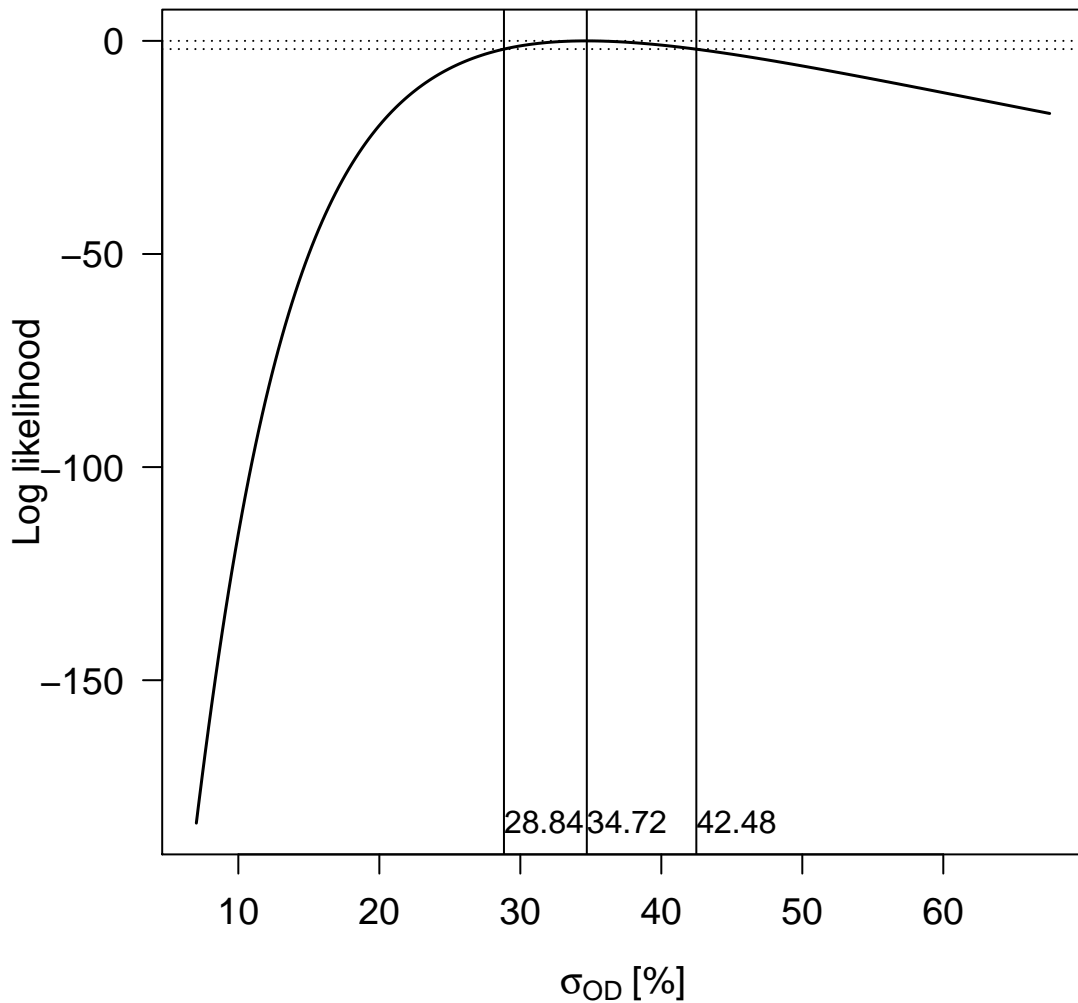
0.018

Precision

Density (bw 0.117)



Profile log likelihood for σ_{OD}



Fast Ratio

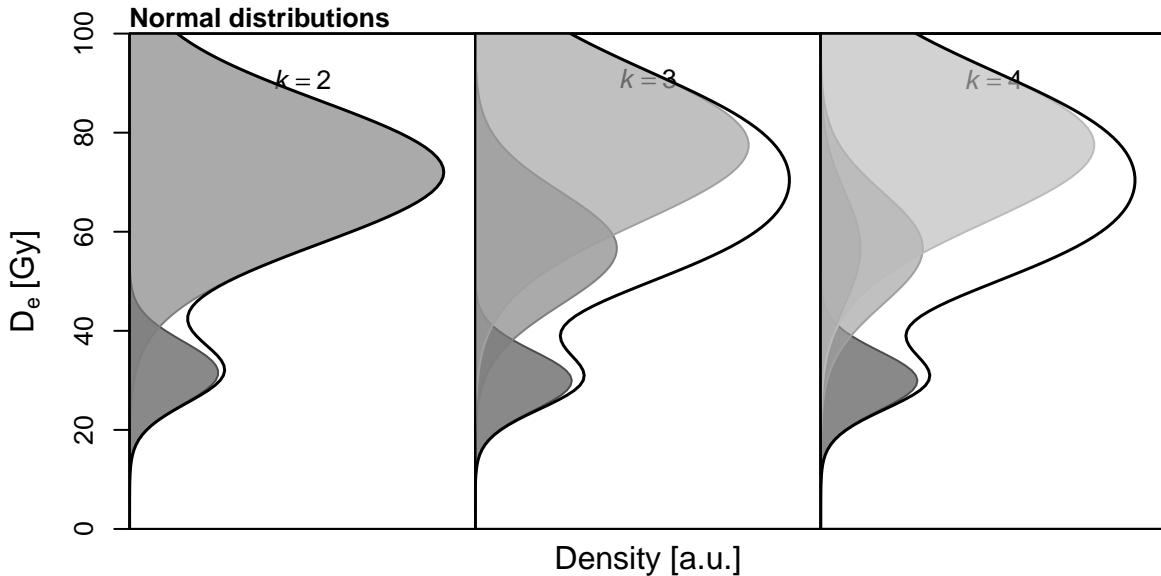


help("calc_FastRatio")

Finite Mixture Model

$\sigma_b = 0.2 \mid n = 62$

Normal distributions



Proportion of components



Statistical criteria



help("calc_FiniteMixture")

Fuchs & Lang (2001)



No L_x curves detected

No T_x curves detected

help("calc_Huntley2006")

Signal Fading

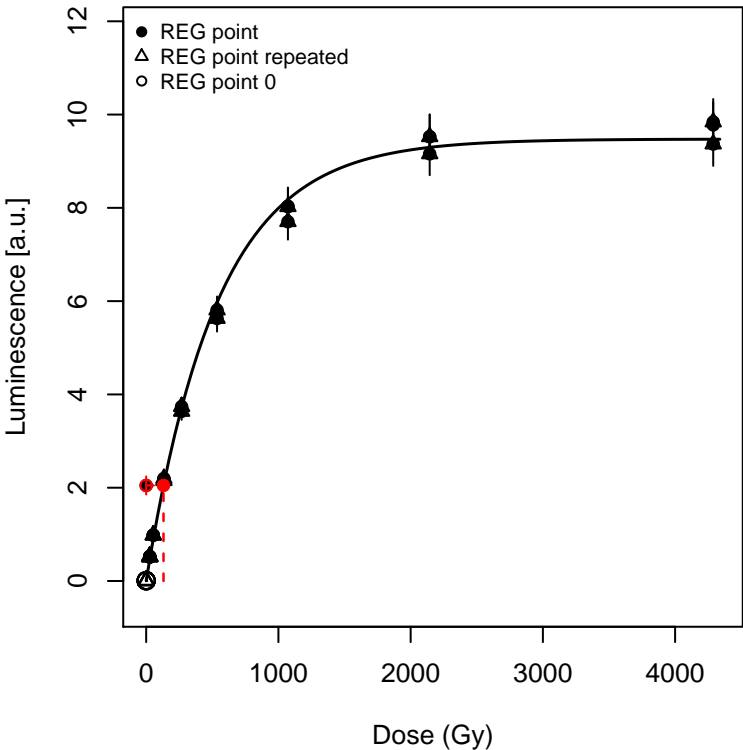


Density: g-values (%/decade)



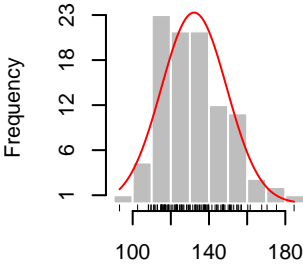
Measured dose response curve

$D_e = 130.97 \pm 17.12$ | fit: EXP

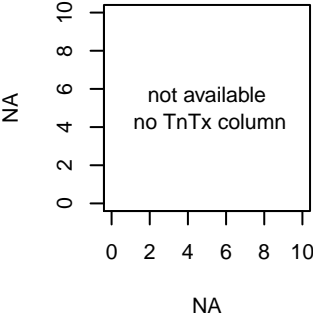


D_e from MC simulation

$D_{eMC} = 132.17 \pm 17.12$ | quality = 99.1 %



Test dose response



Simulated dose response curve

$D_e = 282.67 \pm 38.63$ | fit: EXP



D_e from MC simulation

$D_{eMC} = 289.46 \pm 38.63$ | quality = 97.6 %



Test dose response



Dose response curves







help("calc_I EU")

No L_x curves detected

No T_x curves detected

help("calc_Kars2008")

Signal Fading

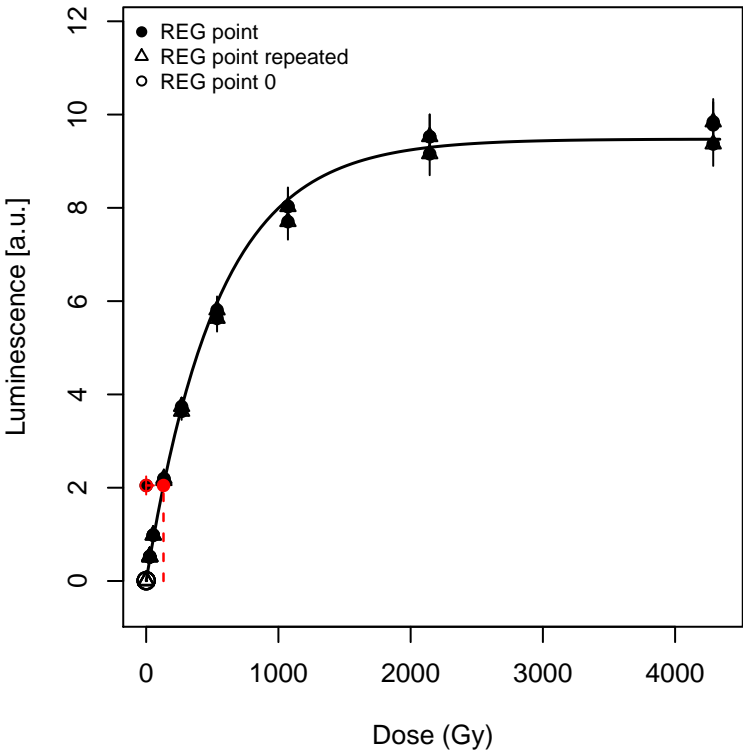


Density: g-values (%/decade)



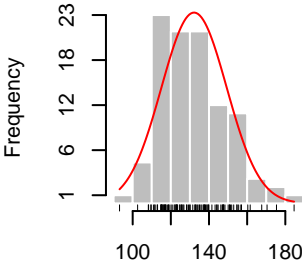
Measured dose response curve

$D_e = 130.97 \pm 17.12$ | fit: EXP

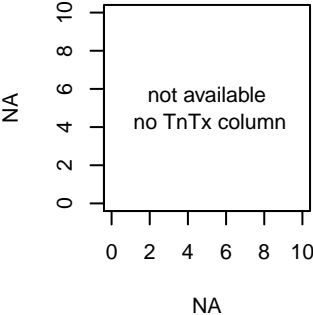


D_e from MC simulation

$D_{eMC} = 132.17 \pm 17.12$ | quality = 99.1 %



Test dose response



Simulated dose response curve

$D_e = 282.67 \pm 38.63$ | fit: EXP



D_e from MC simulation

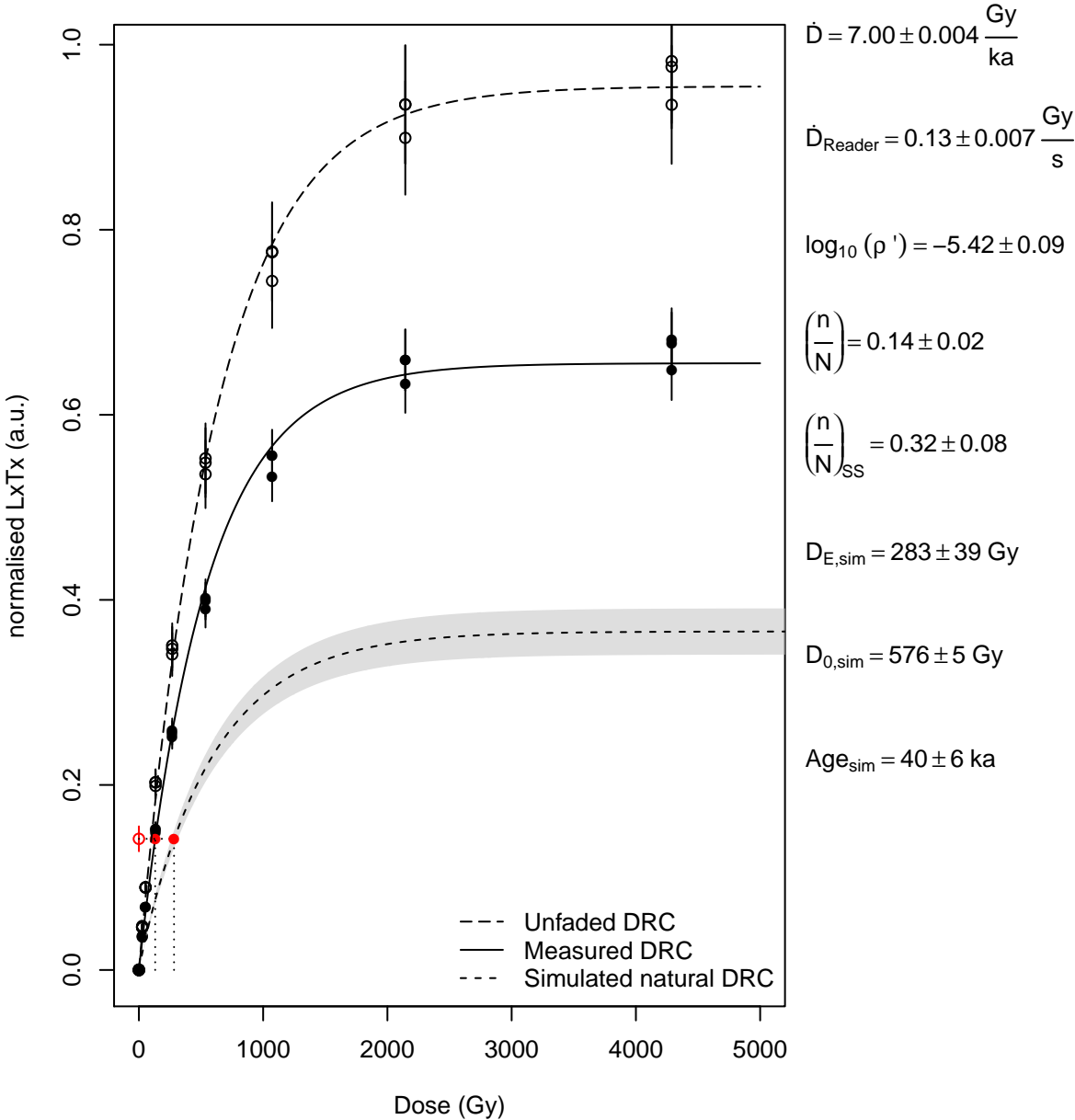
$D_{eMC} = 289.46 \pm 38.63$ | quality = 97.6 %



Test dose response



Dose response curves



Corrected Dose Response Curve

$D_e = 471.3 \pm 21.74$ | fit: EXP



help("calc_Lamothe2003")

Likelihood profile: gamma



Likelihood profile: sigma



help("calc_MaxDose")

Likelihood profile: p0



Likelihood profile: gamma

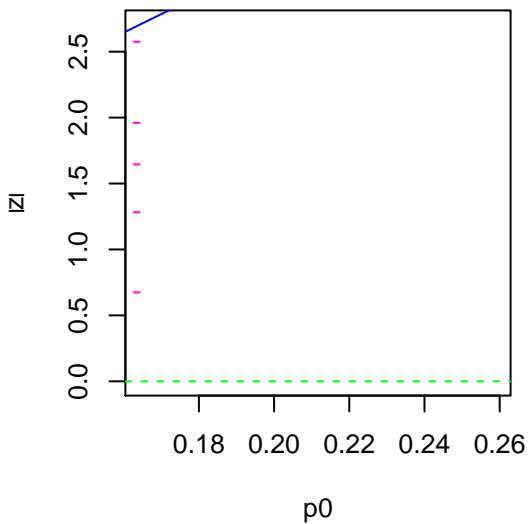


Likelihood profile: sigma



help("calc_MinDose")

Likelihood profile: p0



Source Dose Rate Prediction

source type: Sr-90 | half-life: 28.9 a



help("calc_SourceDoseRate")

D_e distribution



Thermal Lifetime Contour Plot

(values quoted in Ma)



help("calc_ThermalLifetime")

Thermal Lifetime Density Plot



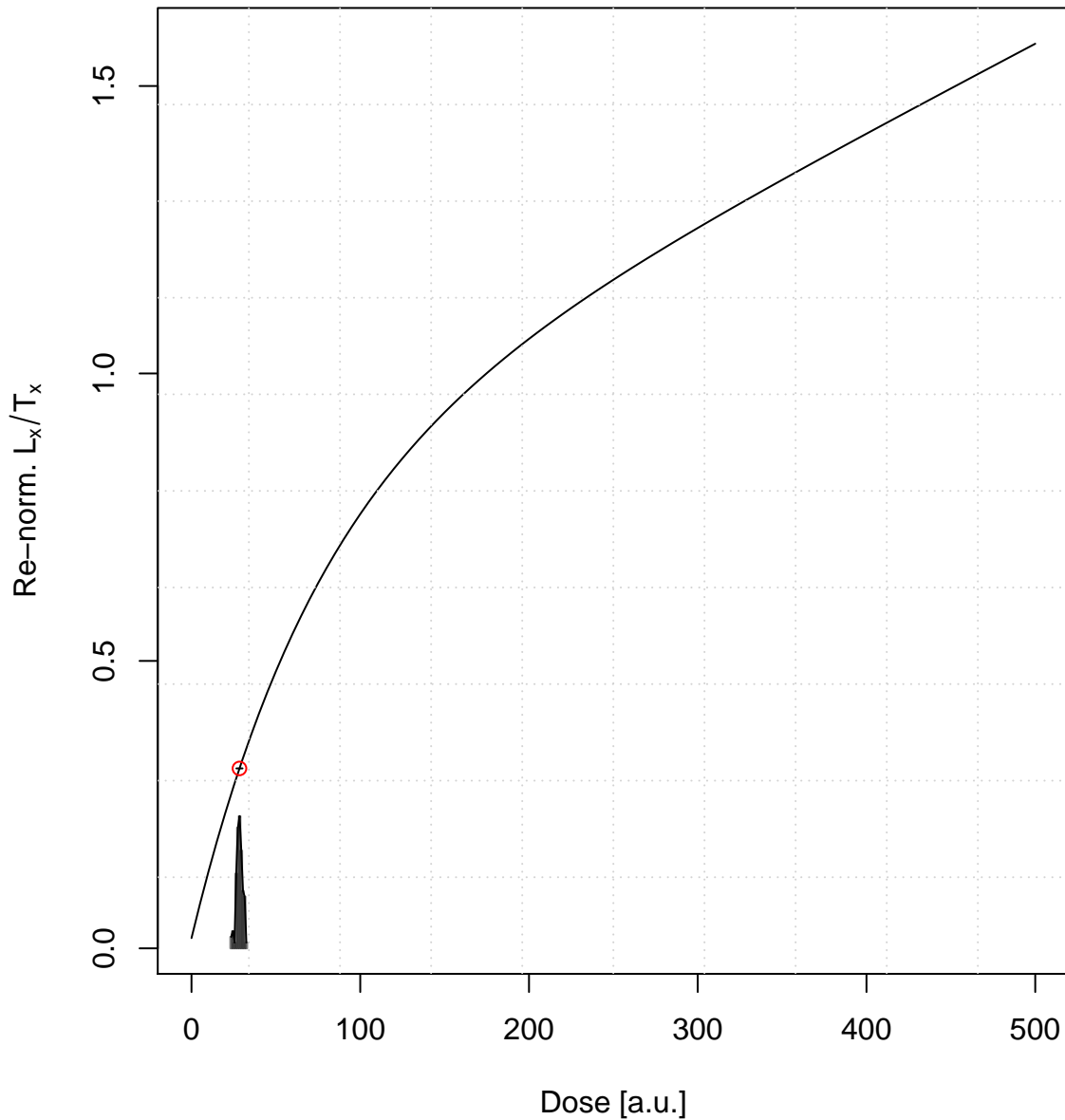
`help("calc_ThermalLifetime")`

D_e applying Woda and Fuchs (2008)

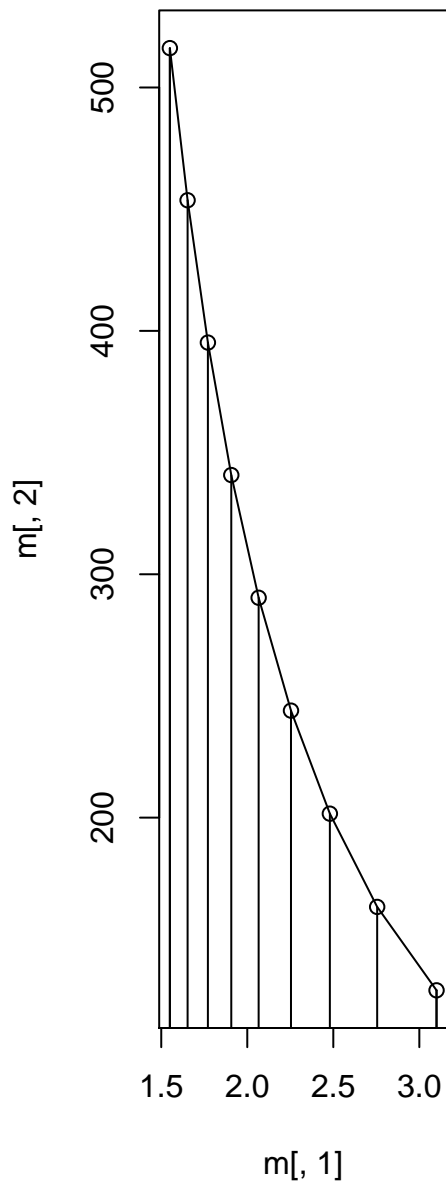
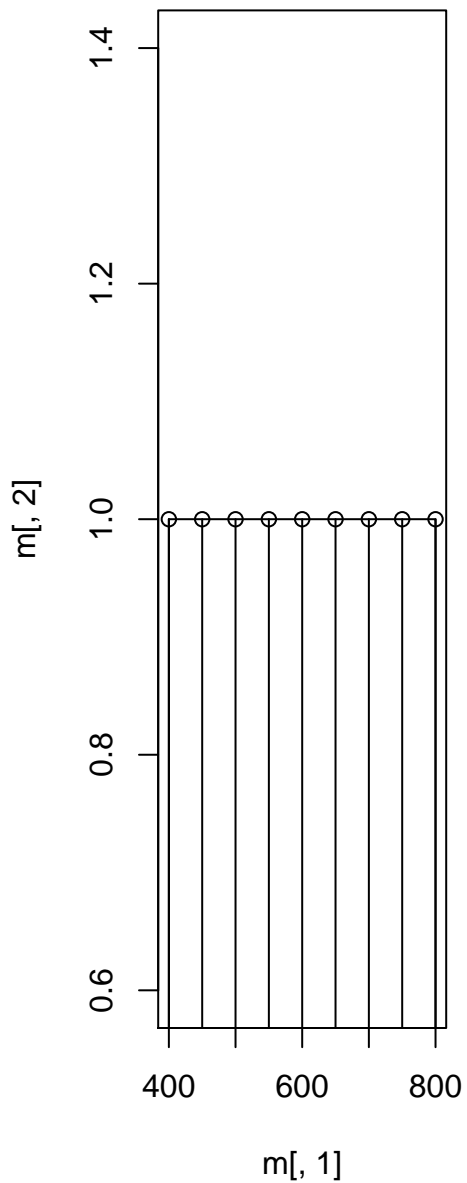


help("calc_WodaFuchs2008")

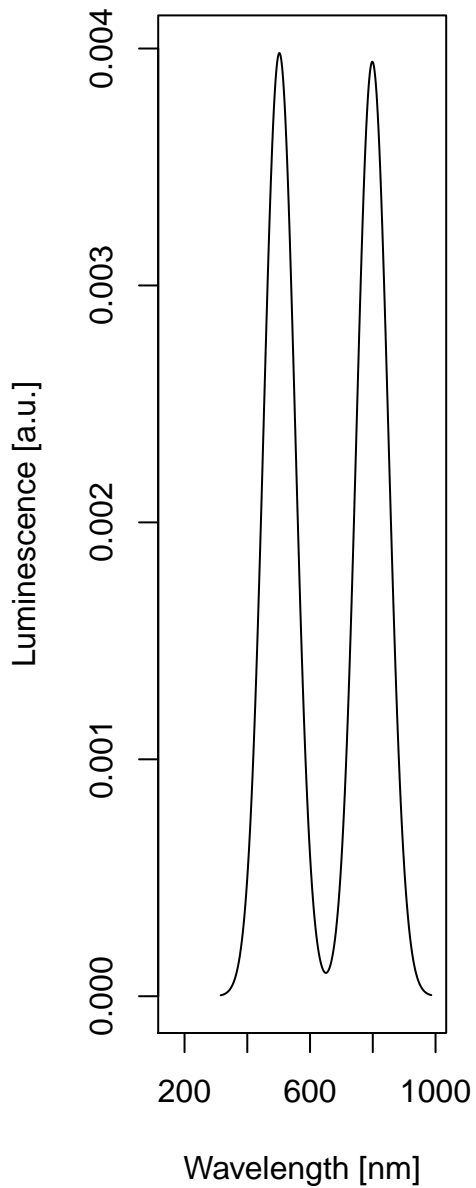
gSGC and resulting De



help("calc_gSGC")



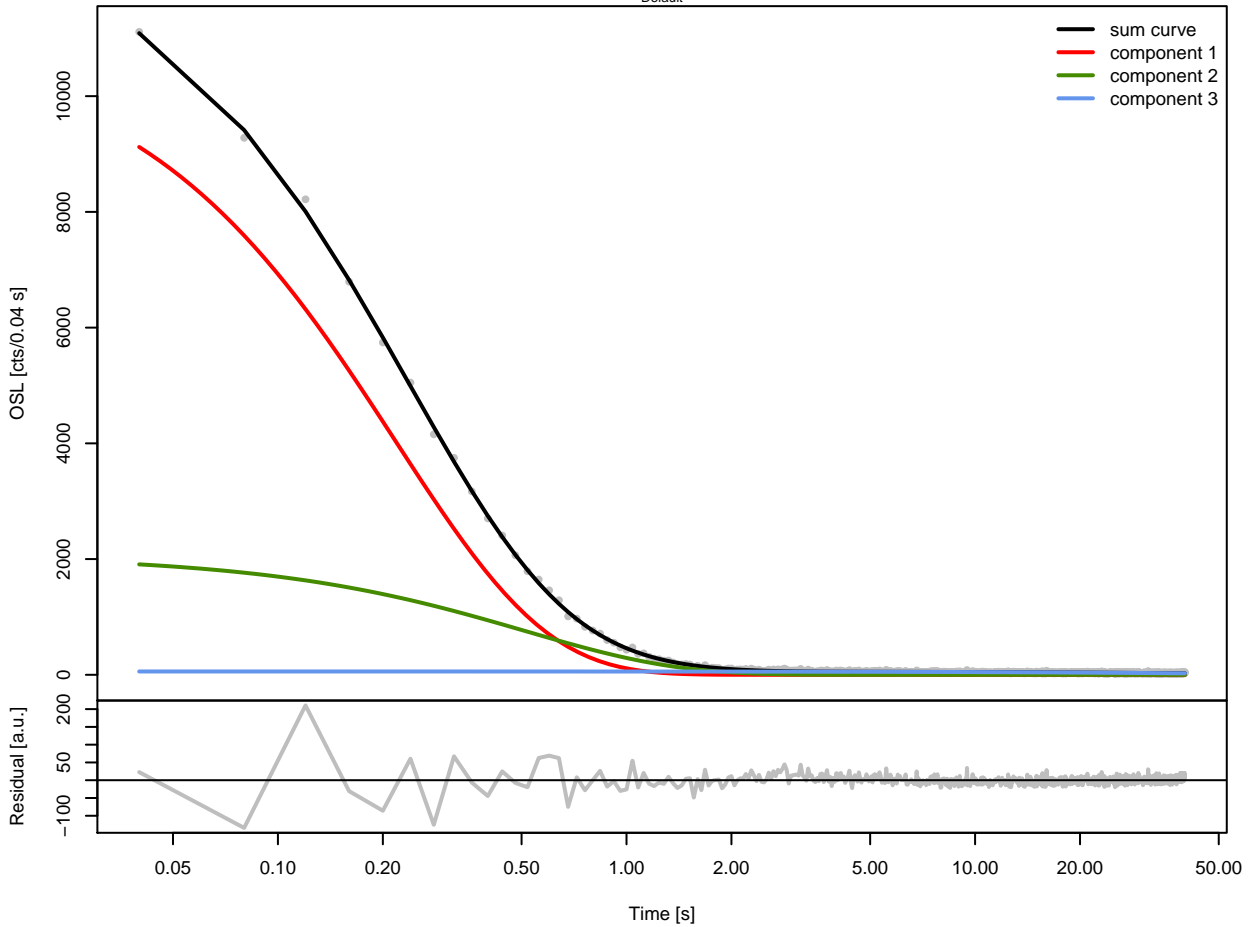
`help("convert_Wavelength2Energy")`



`help("convert_Wavelength2Energy")`

CW Curve Fit

Default



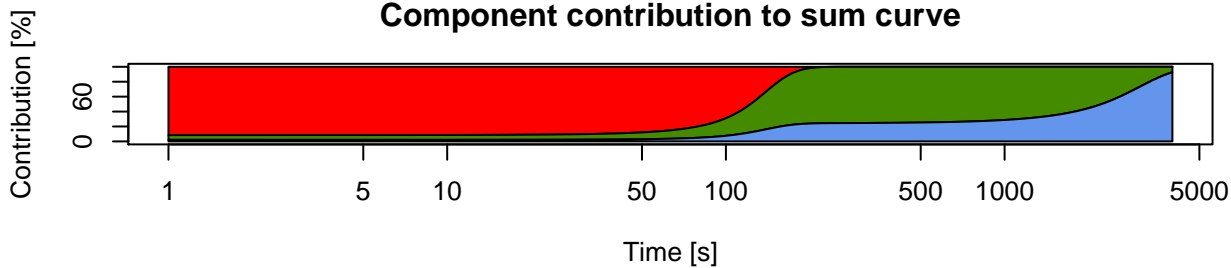
Component contribution to sum curve



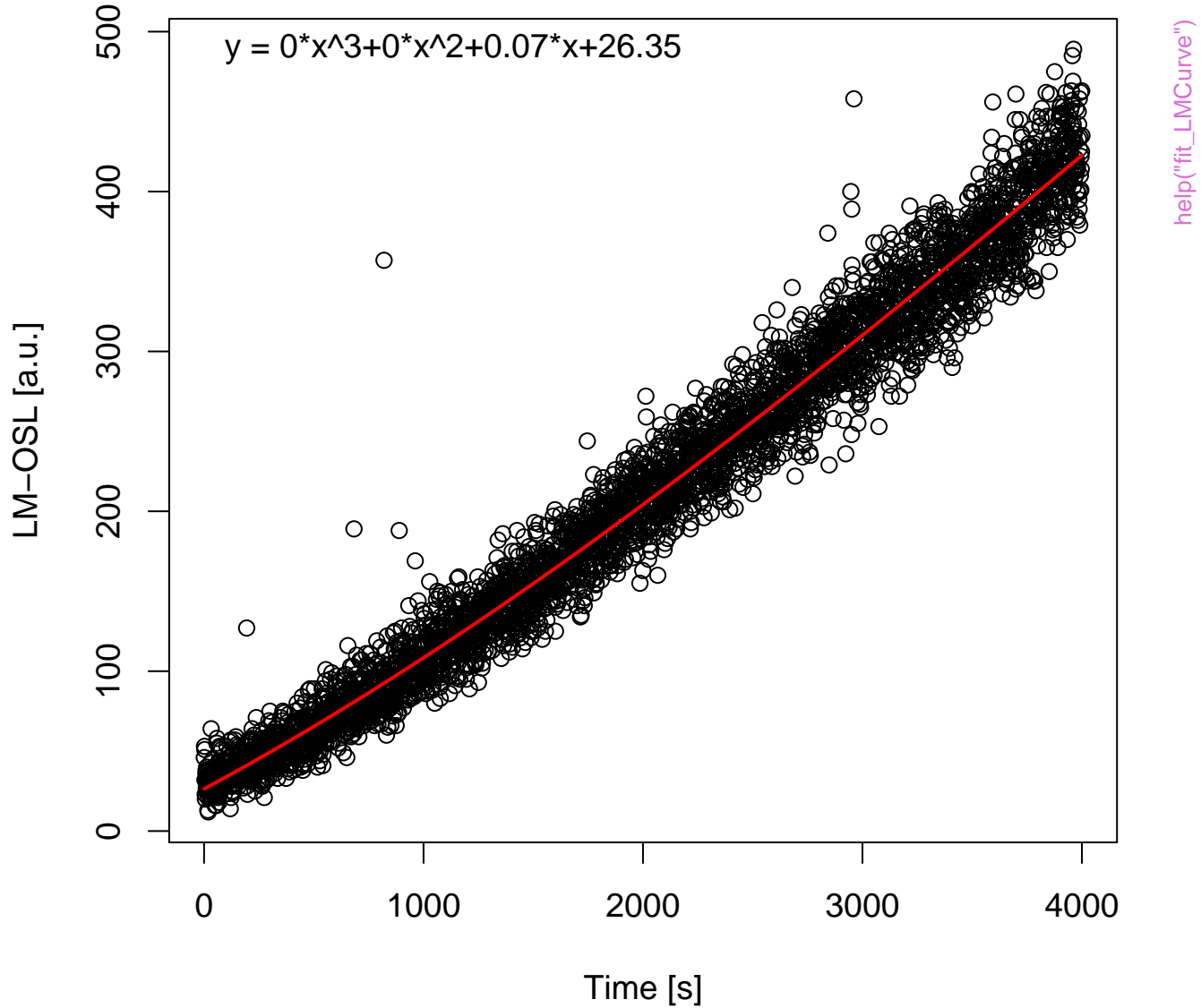
Default



Component contribution to sum curve



Background



Default



Component contribution to sum curve



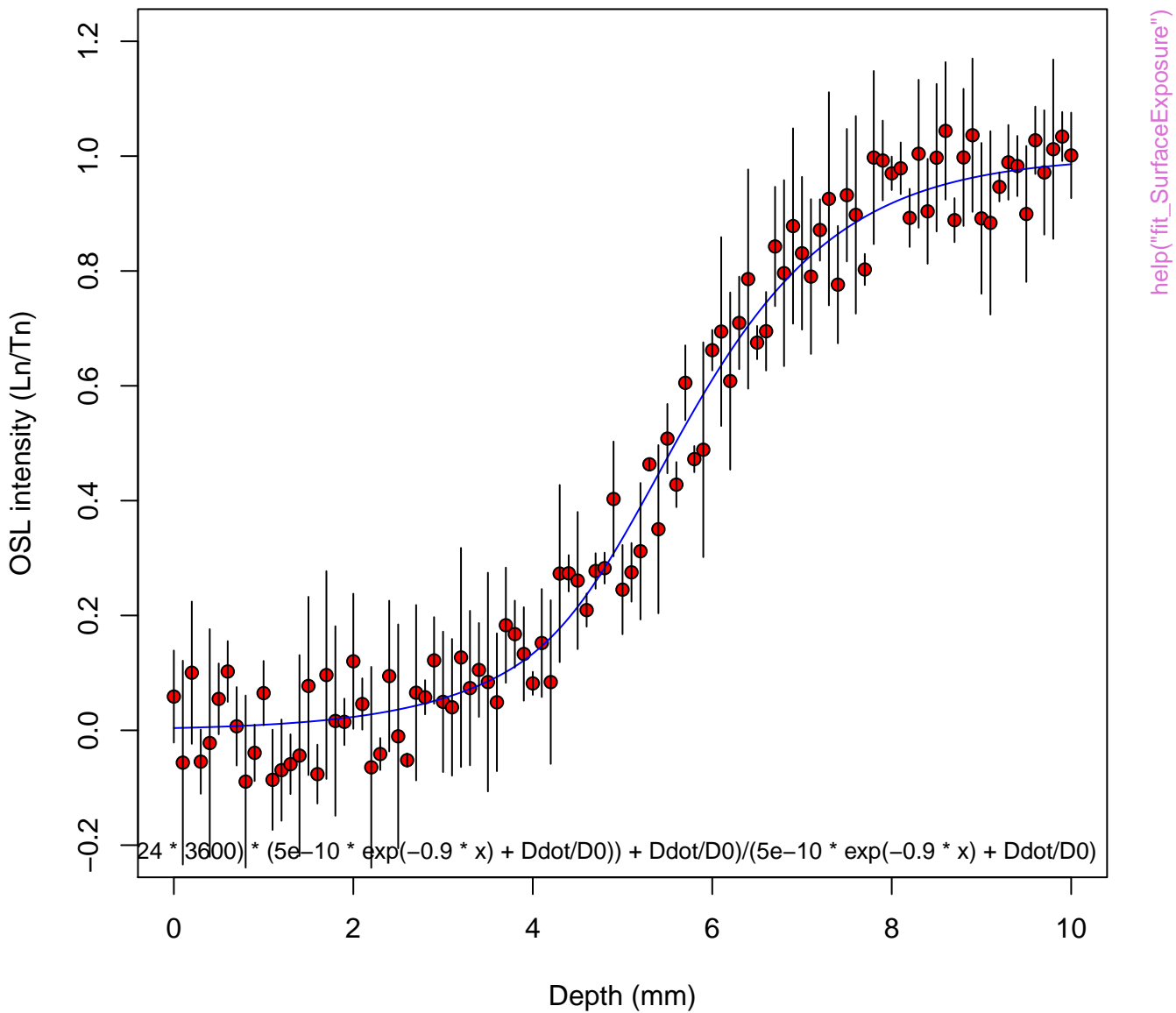
Default

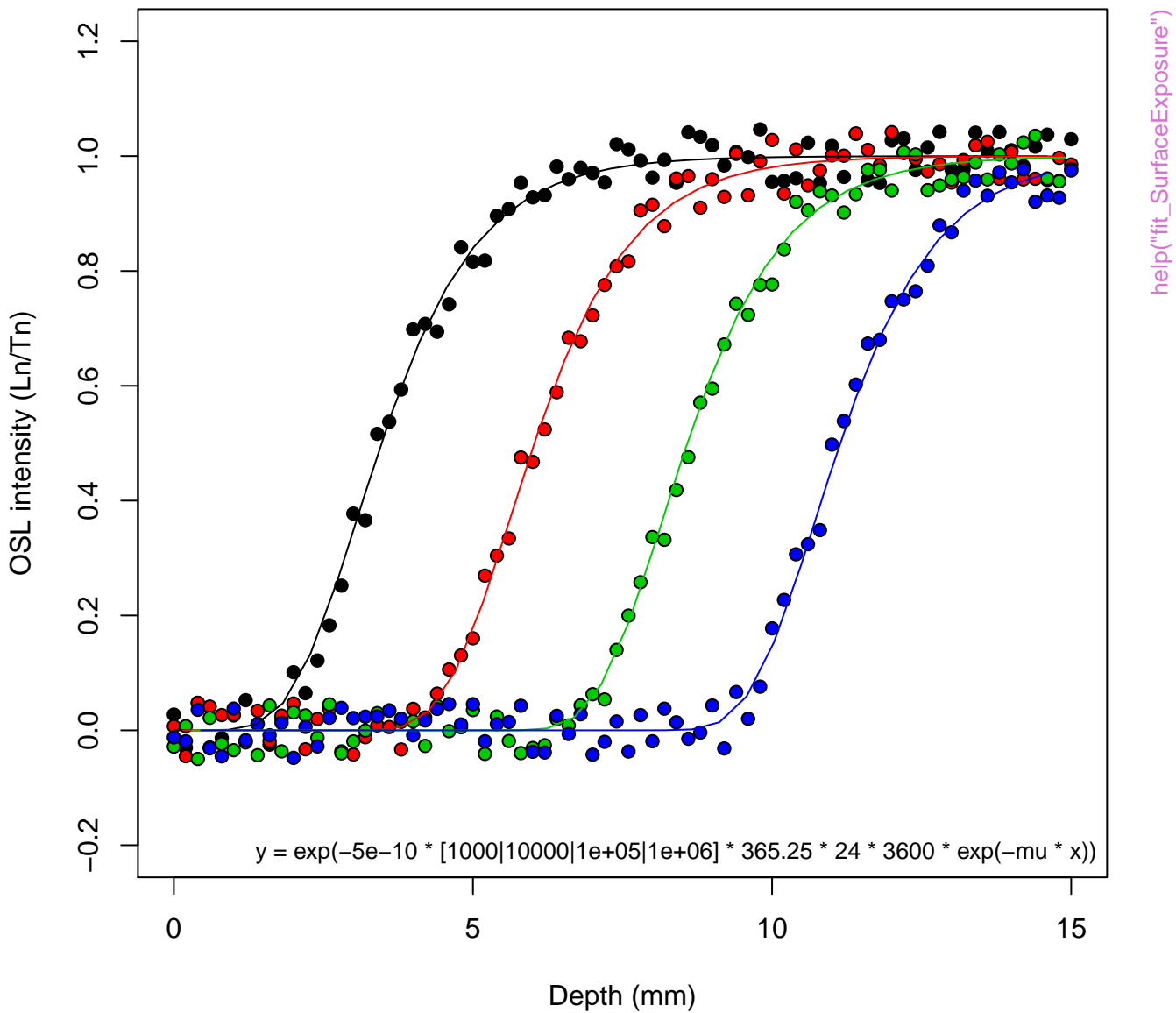


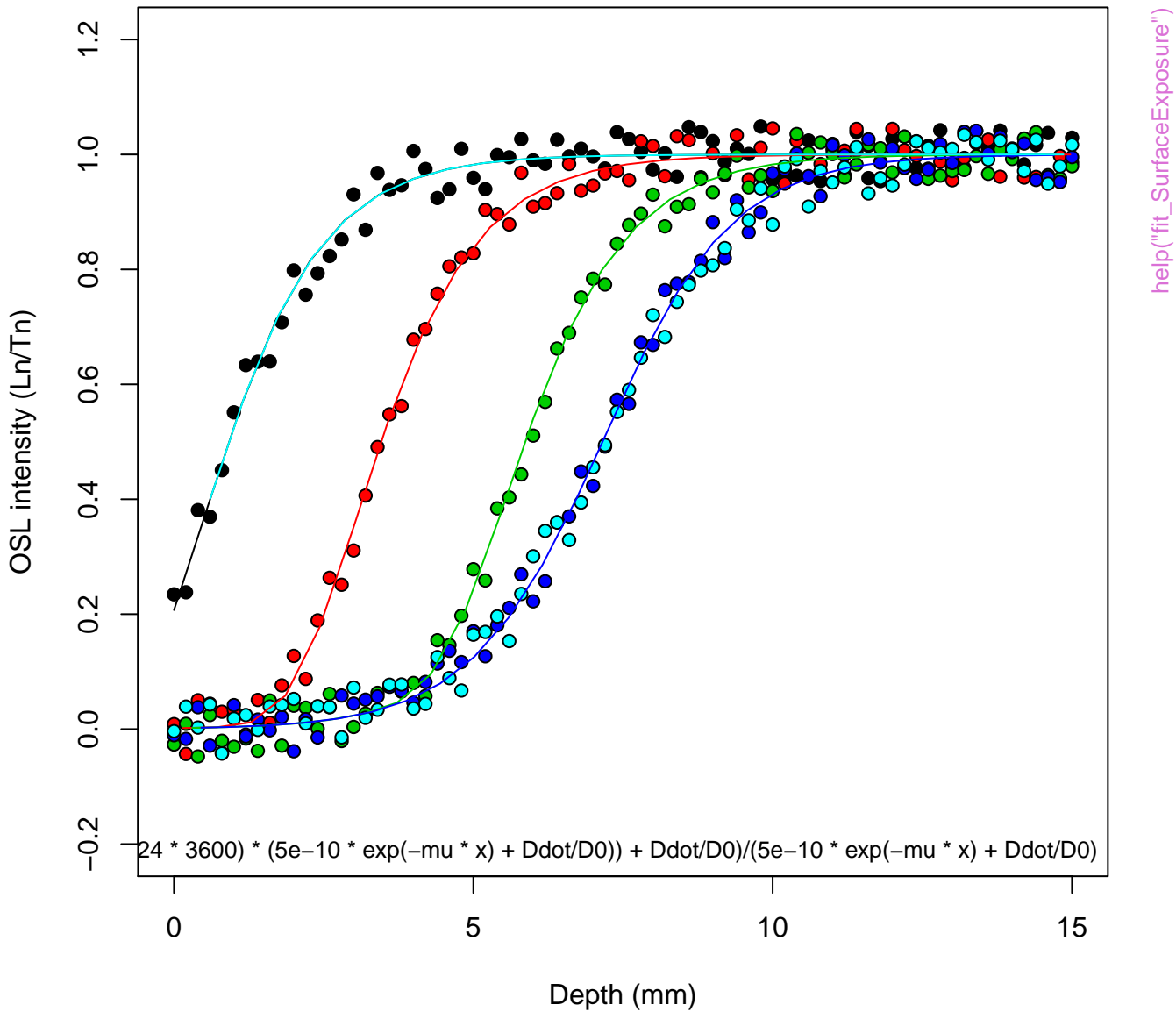
Component contribution to sum curve











Thermal quenching

n.MC = 0

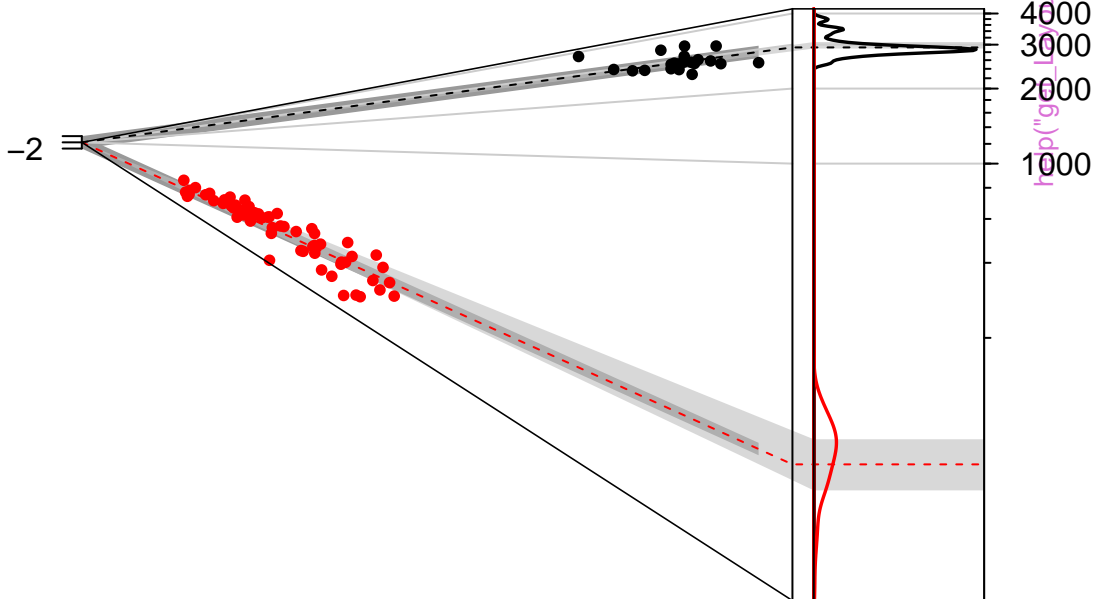


D_e distribution

n = 25 | in 2 sigma = 68 %

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



Relative standard error (%)

10

5

3.3

0

10

20

30

0.015

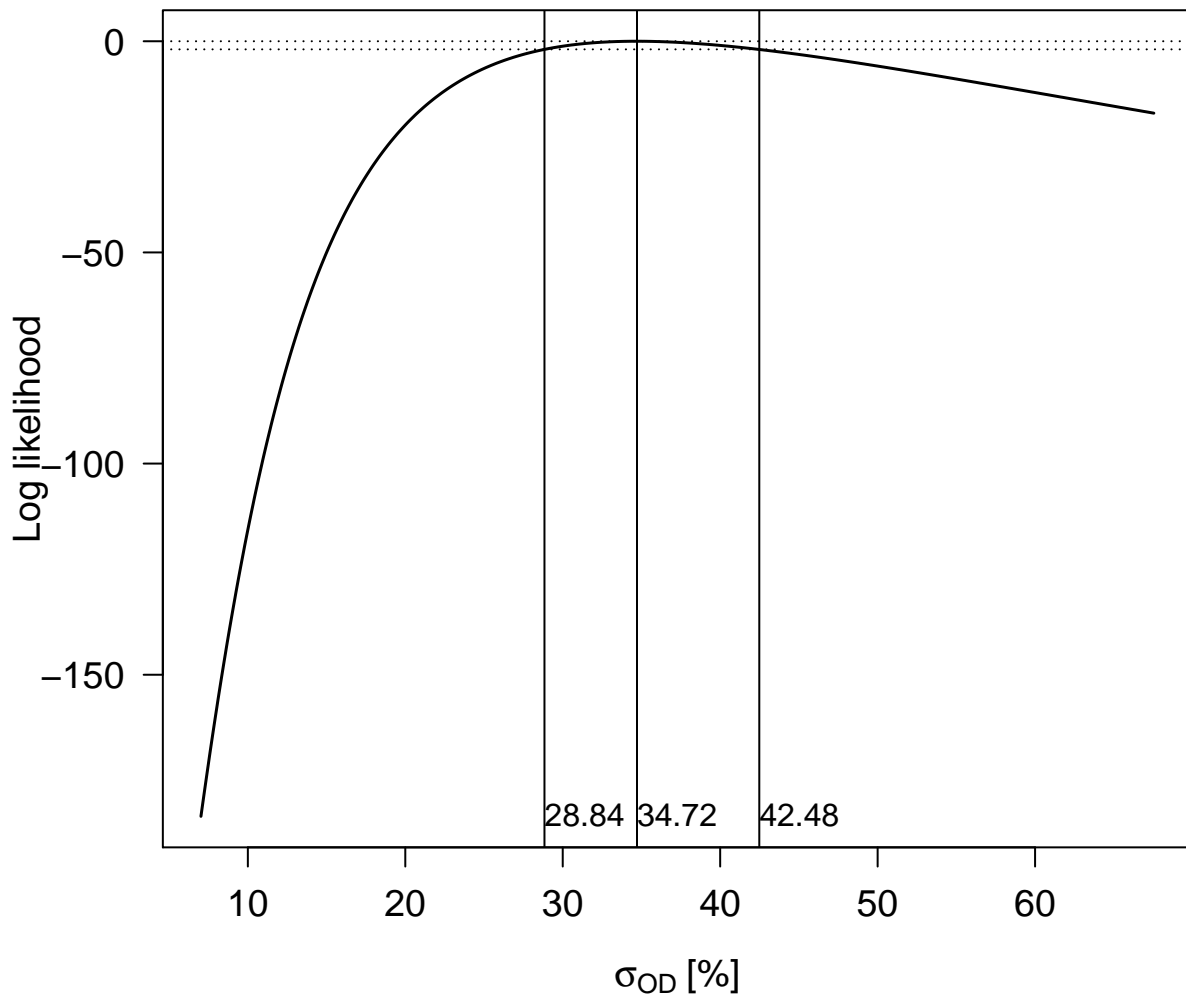
Precision

Density (bw 0.085)

help("get_Layout")



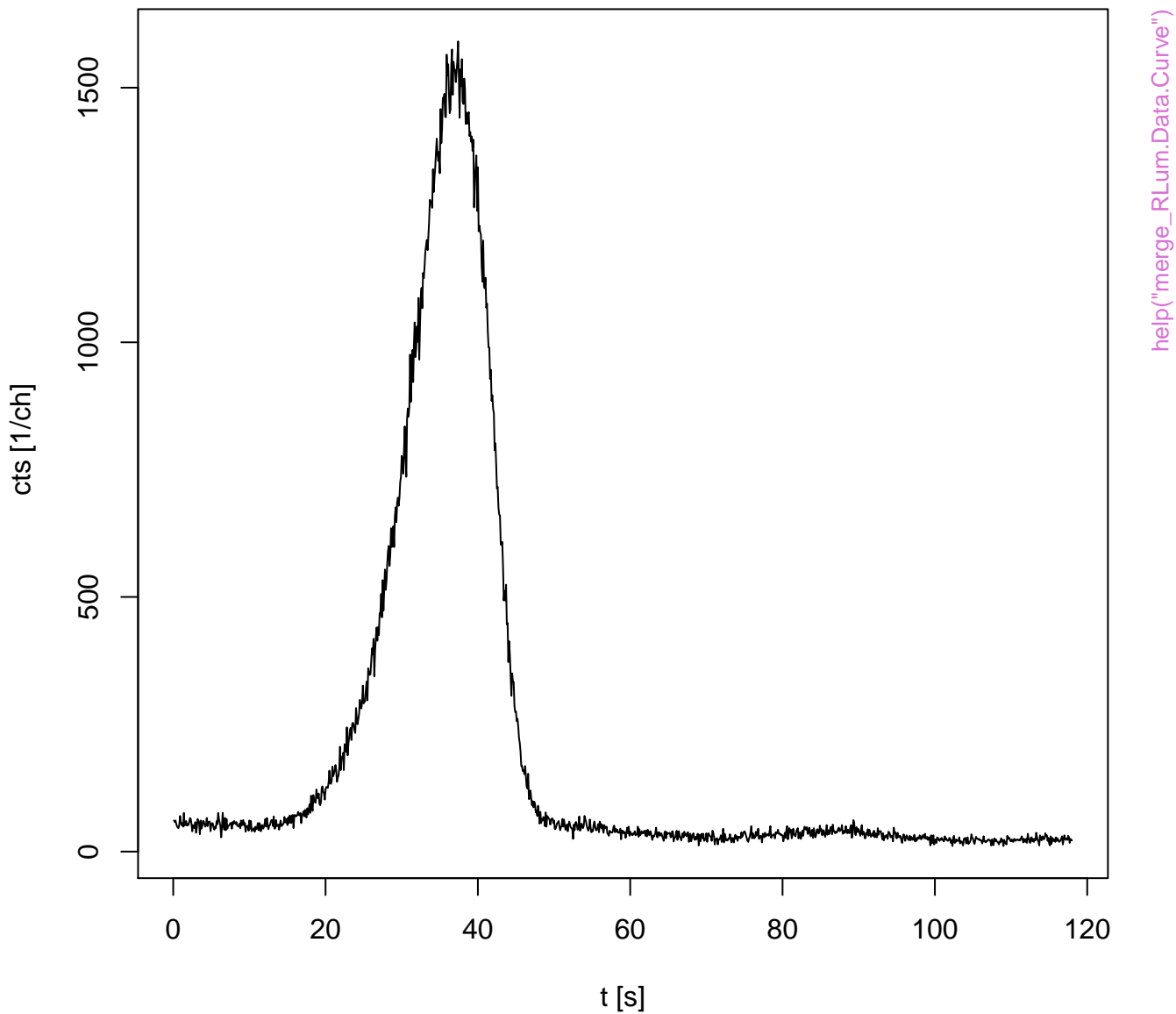
Profile log likelihood for σ_{OD}



TL (UVVIS)



TL (UVVIS)



help("merge_RLum.Data.Curve")

TL (UUVIS)



help("merge_RLum.Data.Curve")

Profile log likelihood for σ_{OD}



Profile log likelihood for σ_{OD}



D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



Relative standard error (%)

20

10

6.7

0

5

10

15

0.016

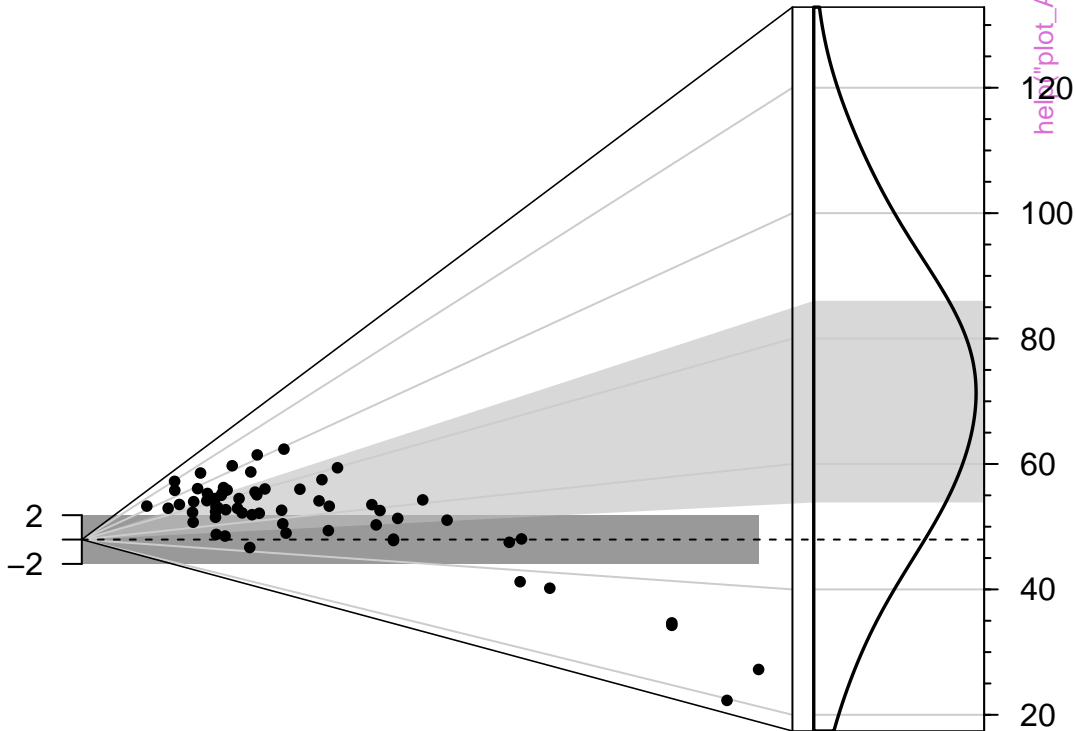
Precision

Density (bw 0.15)

D_e distribution

n = 62 | in 2 sigma = 24.2 %

Standardised estimate



help("plot_AbanicoPlot")

help("plot_AbanicoPlot")

Density (bw 11.795)

D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



Relative standard error (%)

20

10

6.7

0

5

10

15

0.016

Precision

Density (bw 0.15)

D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



Relative standard error (%)

20

10

6.7

0

5

10

15

0.016

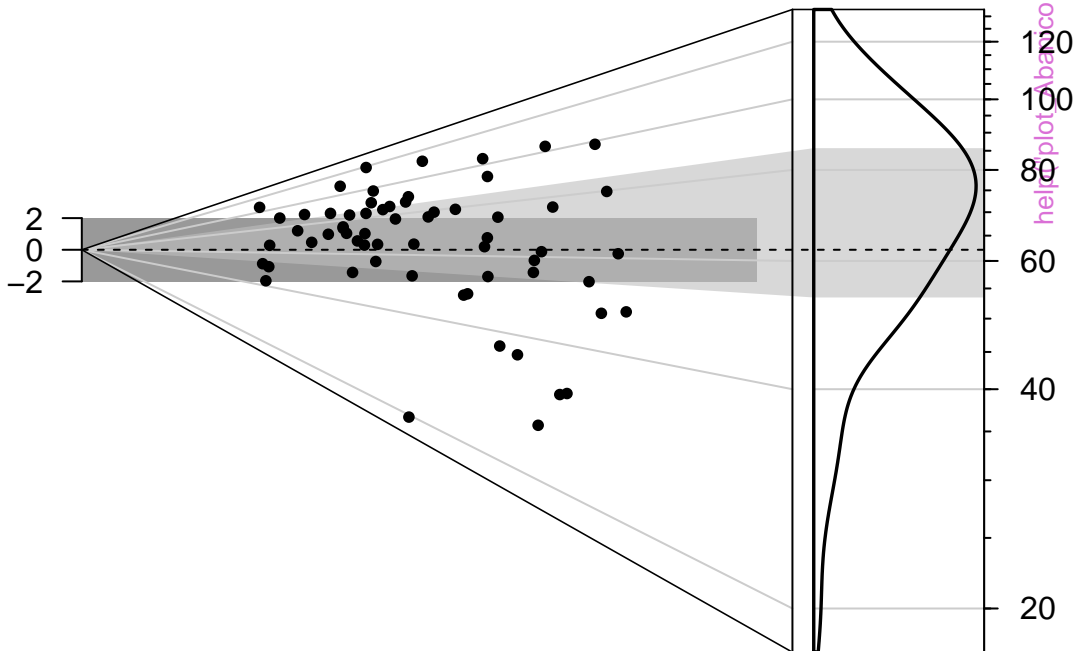
Precision

Density (bw 0.15)

D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



Relative standard error (%)

20

10

6.7

5

0

5

10

15

200

0.016

Precision

Density (bw 0.15)

help("plot_AbanicoPlot")

D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



Relative standard error (%)

20

10

6.7

0

5

10

15

0.016

Precision

Density (bw 0.15)

D_e [Gy]

help("plot_AbanicoPlot")

D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



D_e [Gy]

Relative standard error (%)

20

10

6.7

0

5

10

15

0

0.264

Precision

Density (bw 0.04)

help("plot_AbanicoPlot")

help("plot_AbanicoPlot")

D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



D_e [Gy]

Relative standard error (%)

20

10

6.7

0

n

15

0

5

10

15

Precision

D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



help("plot_AbanicoPlot")

D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



Relative standard error (%)

20

10

6.7

0

5

10

15

0.016

Precision

Density (bw 0.15)

D_e [Gy]

help("plot_AbanicoPlot")

D_e distribution

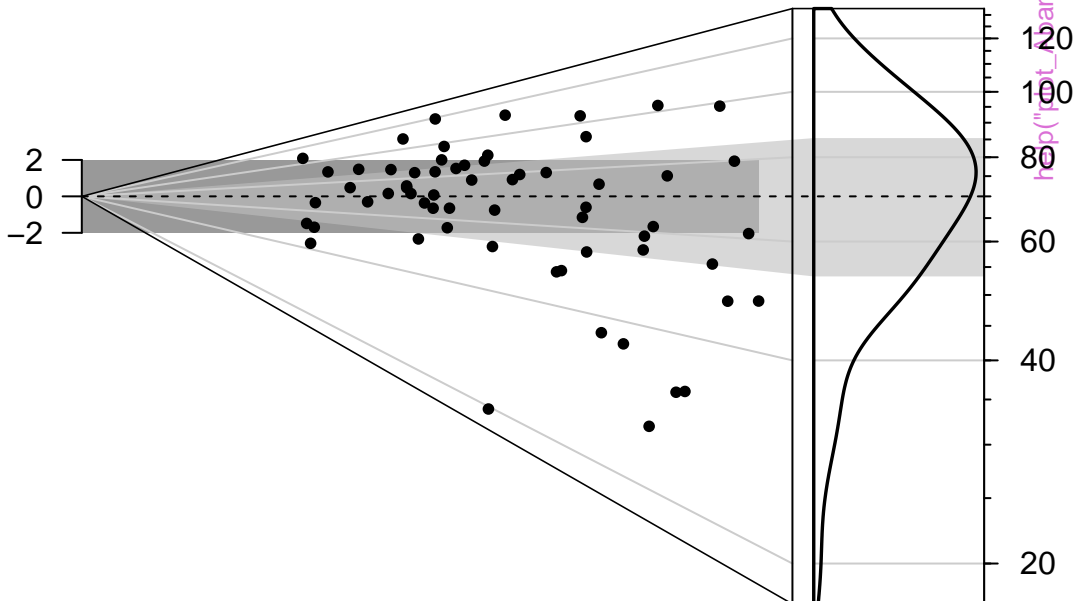
n = 62 | in 2 sigma = 41.9 %



D_e distribution

n = 62 | in 2 sigma = 53.2 %

Standardised estimate



Relative standard error (%)

20

10

6.7

0

5

10

15

0.016

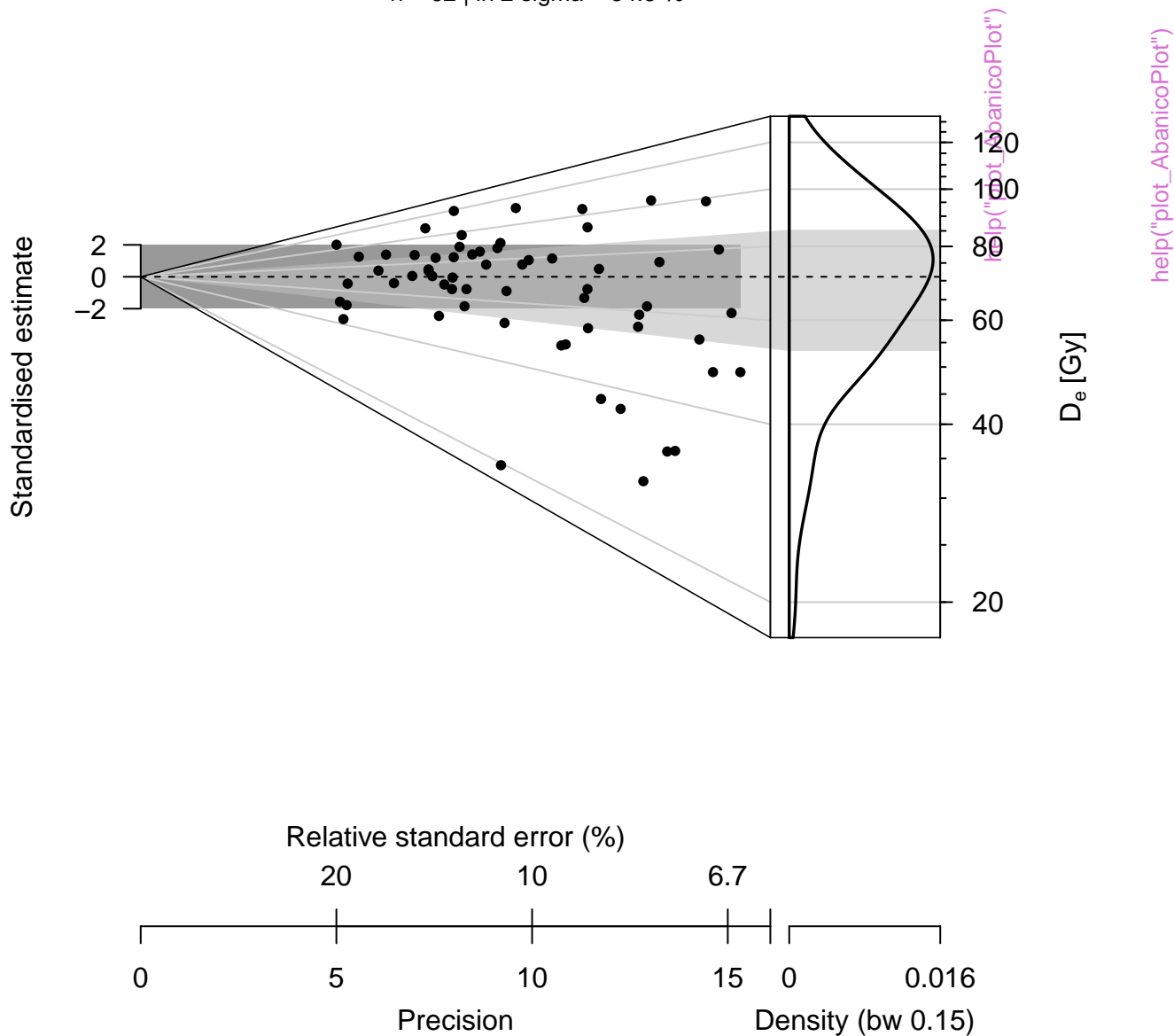
Precision

Density (bw 0.15)

help("plot_AbanicoPlot")

D_e distribution

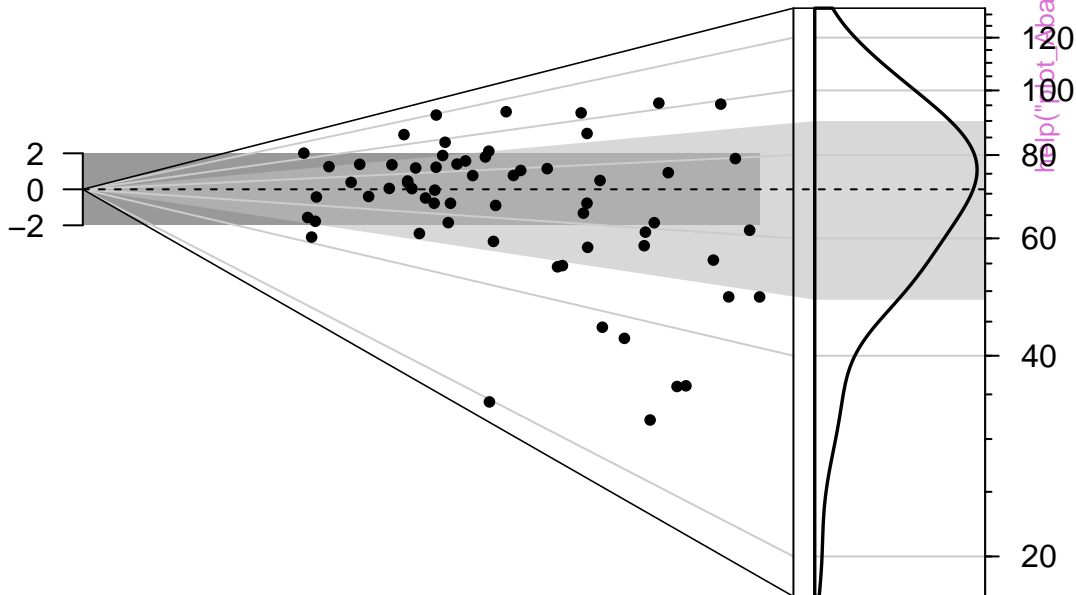
n = 62 | in 2 sigma = 54.8 %



D_e distribution

n = 62 | in 2 sigma = 54.8 %

Standardised estimate



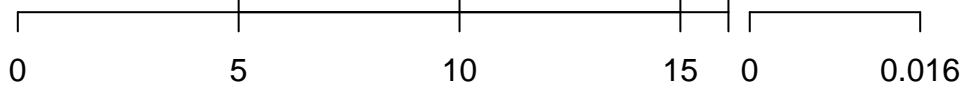
D_e [Gy]

Relative standard error (%)

20

10

6.7



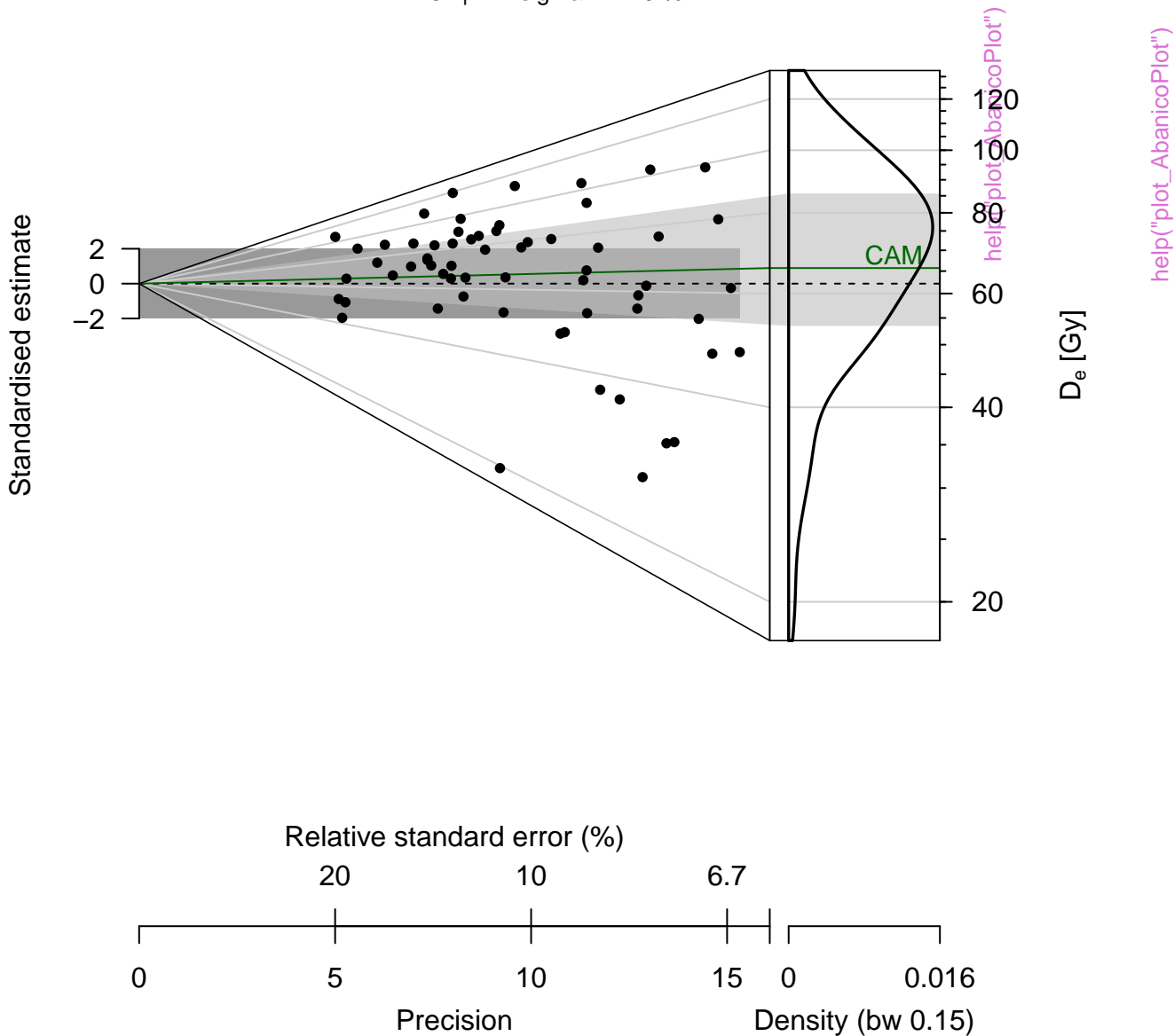
Precision

Density (bw 0.15)

help("plot_AbanicoPlot")

D_e distribution

n = 62 | in 2 sigma = 41.9 %

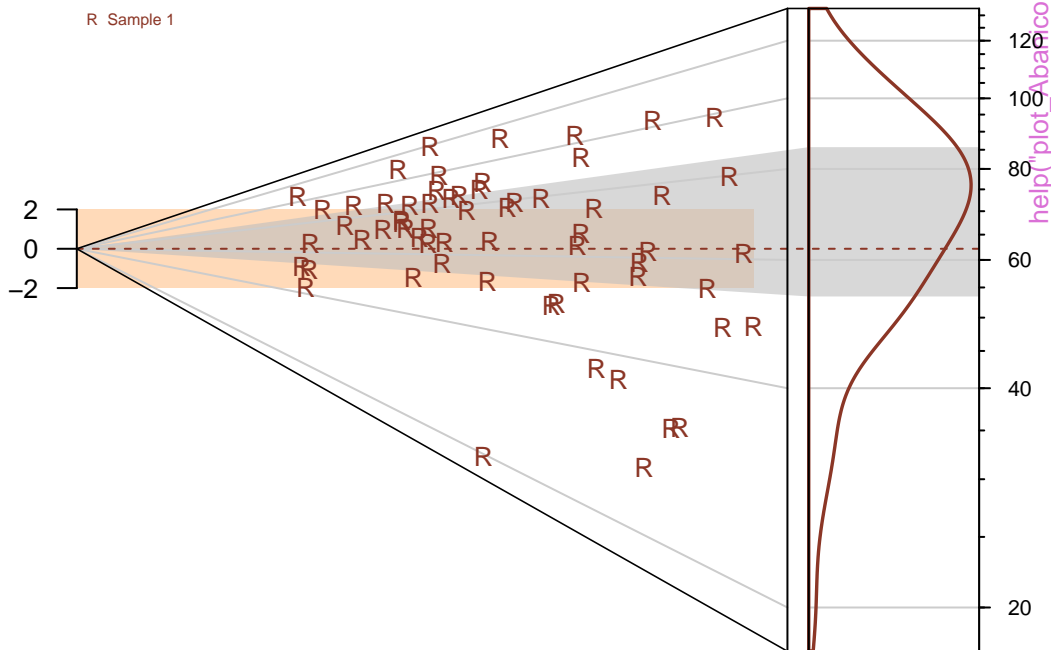


D_e distribution

n = 62 | in 2 sigma = 41.9 %

R Sample 1

Standardised estimate



Relative standard error (%)

20

10

6.7

0

5

10

15

0.016

Precision

Density (bw 0.15)

D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate

0

D_e [Gy]

20 40 60 80 100 120

Relative standard error (%)

20

10

6.7

0

5

10

15

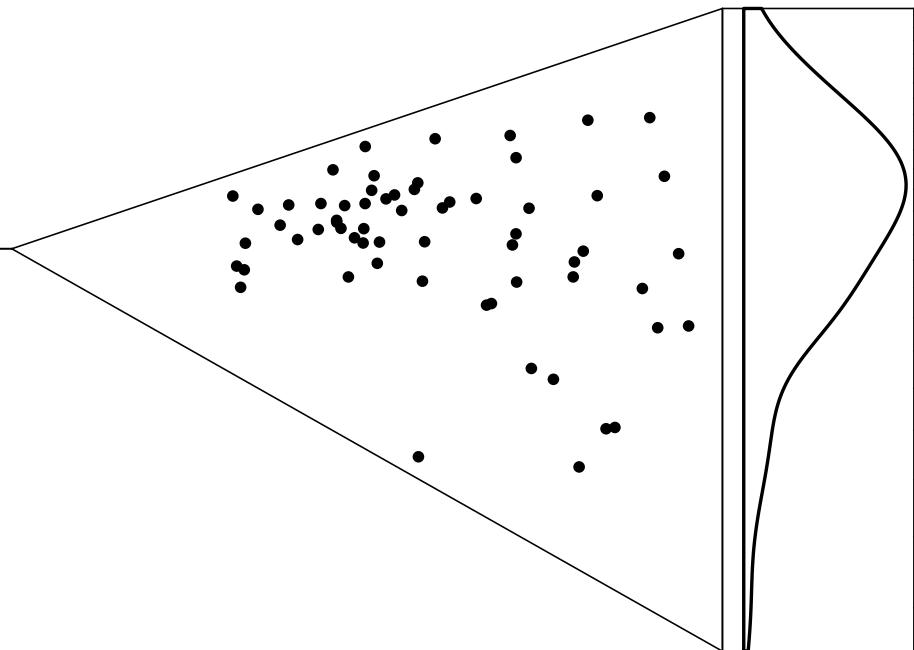
0.016

Precision

Density (bw 0.15)

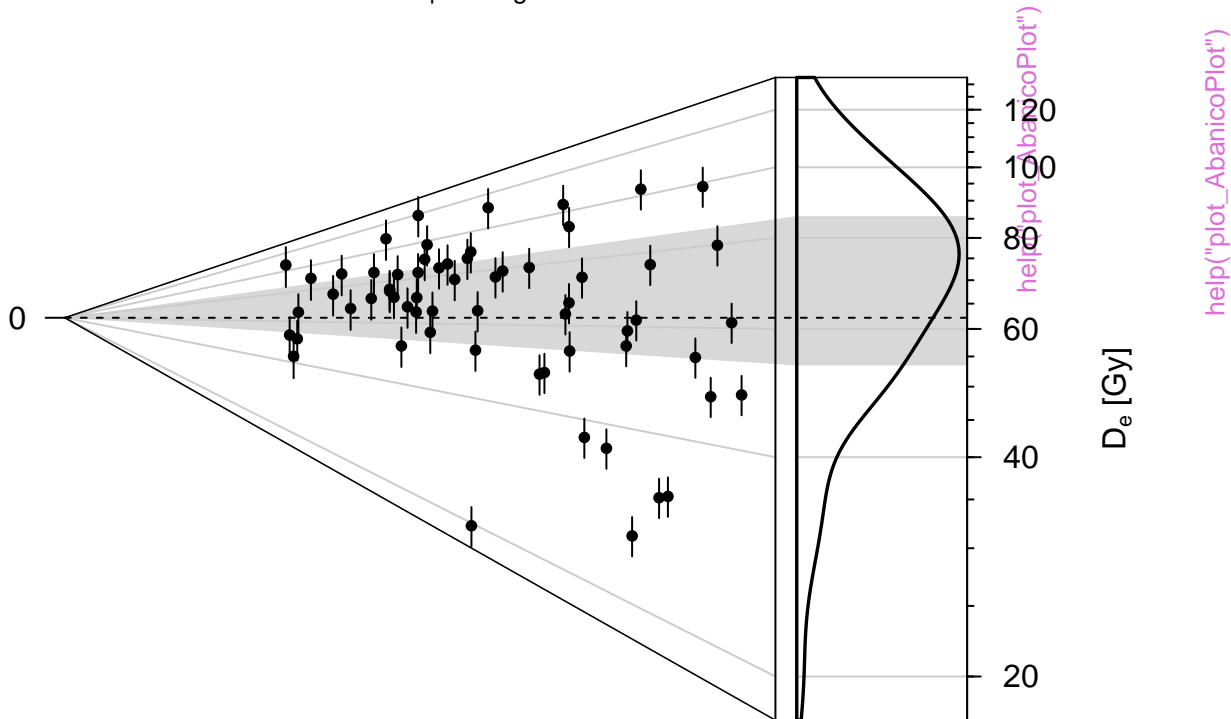
help("plot_AbanicoPlot")

help("plot_AbanicoPlot")



D_e distribution

n = 62 | in 2 sigma = 41.9 %



Relative standard error (%)

20

10

6.7

0

5

10

15

0

0.016

Precision

Density (bw 0.15)

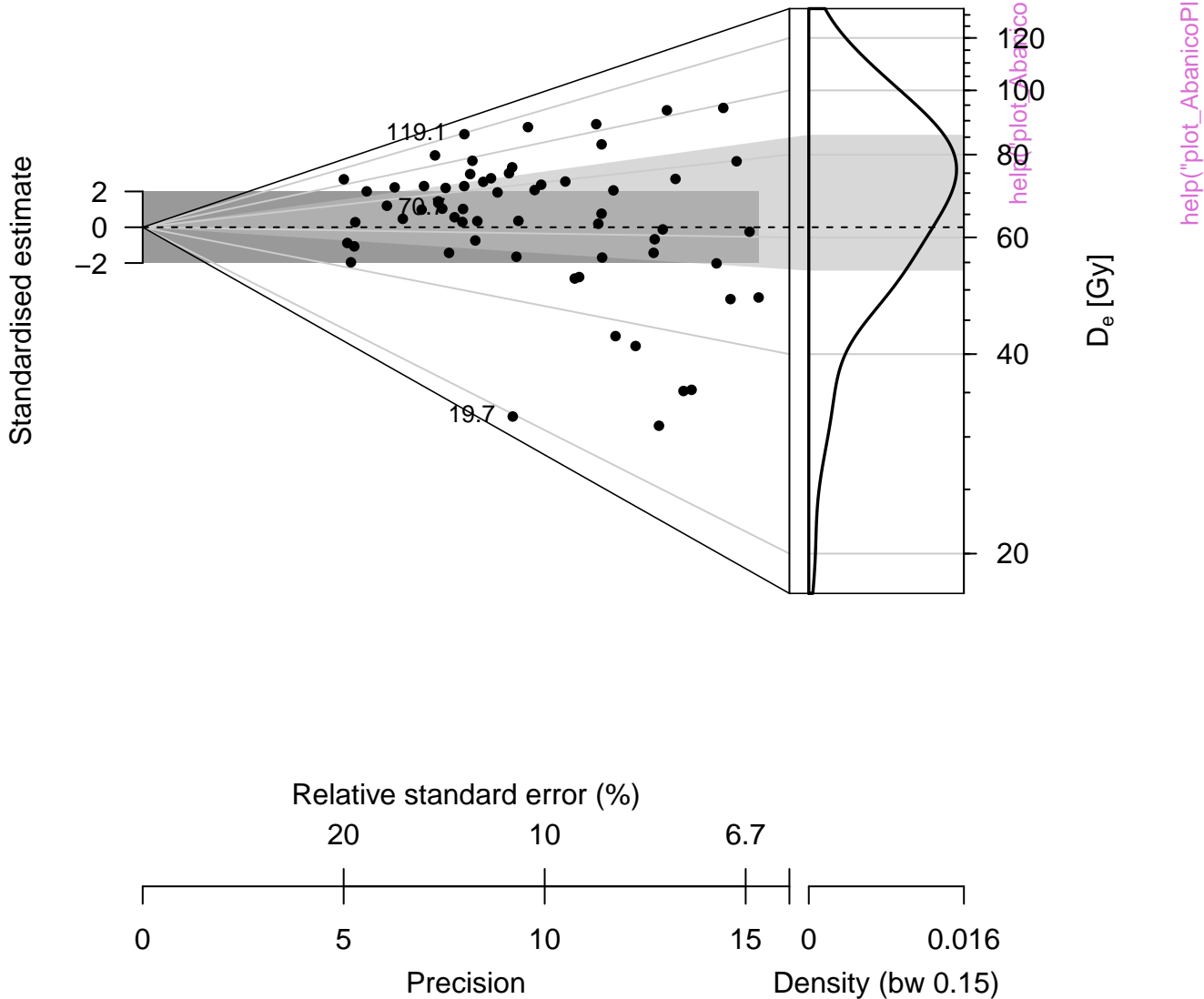
D_e distribution

n = 62 | in 2 sigma = 41.9 %



D_e distribution

n = 62 | in 2 sigma = 41.9 %



D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



Relative standard error (%)

20

10

6.7

0

5

10

15

0.016

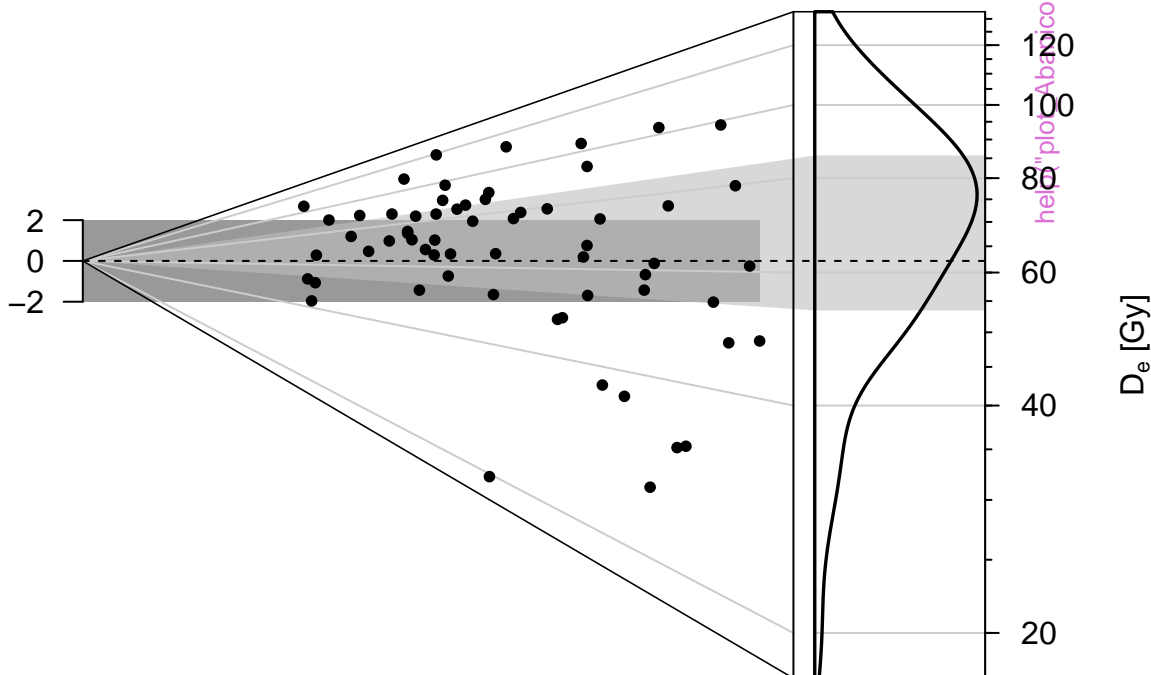
Precision

Density (bw 0.15)

D_e distribution

median = 71.07

Standardised estimate



Relative standard error (%)

20

10

6.7

0

5

10

15

0.016

Precision

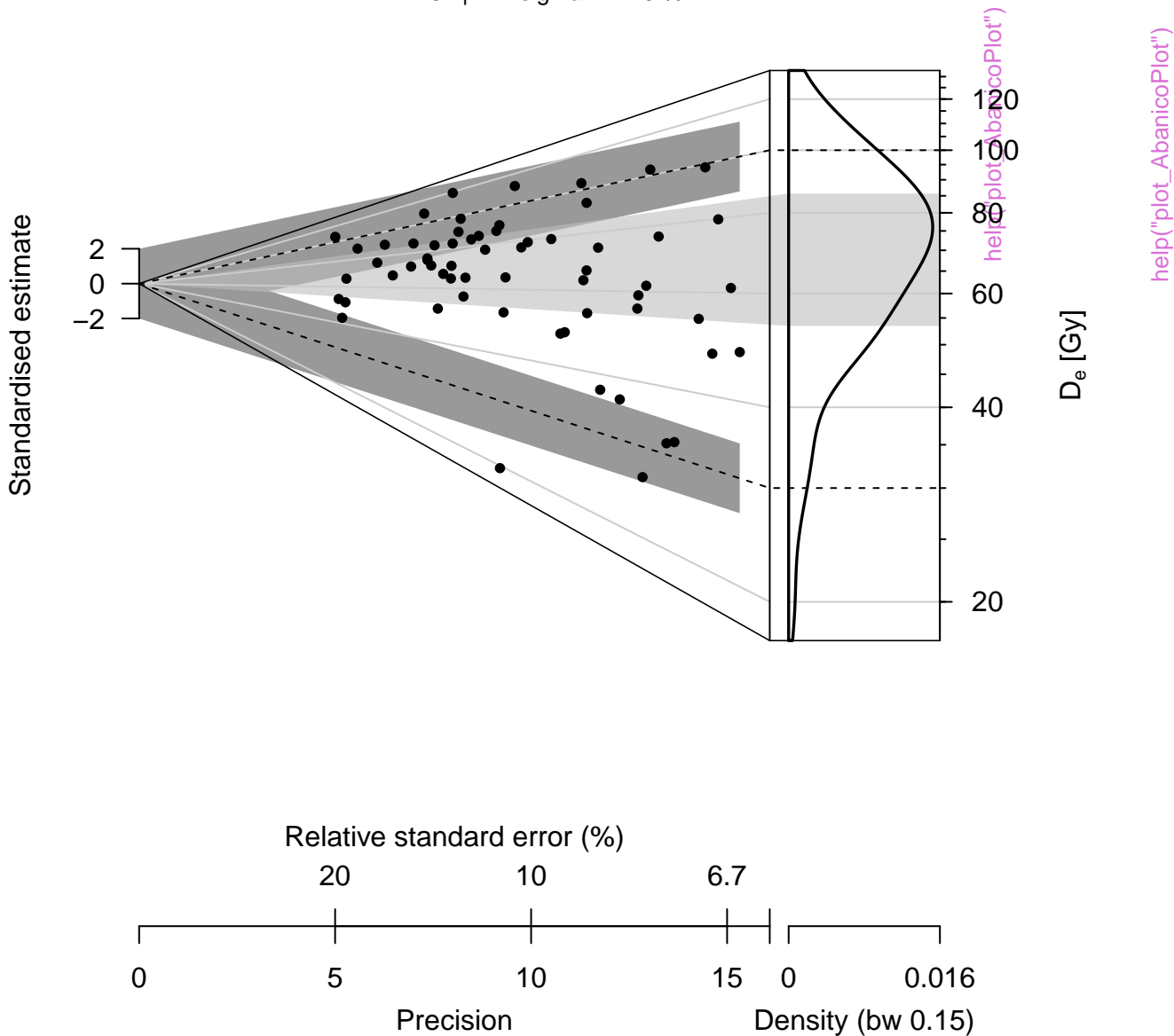
Density (bw 0.15)

D_e [Gy]

help("plot_AbanicoPlot")

D_e distribution

n = 62 | in 2 sigma = 41.9 %

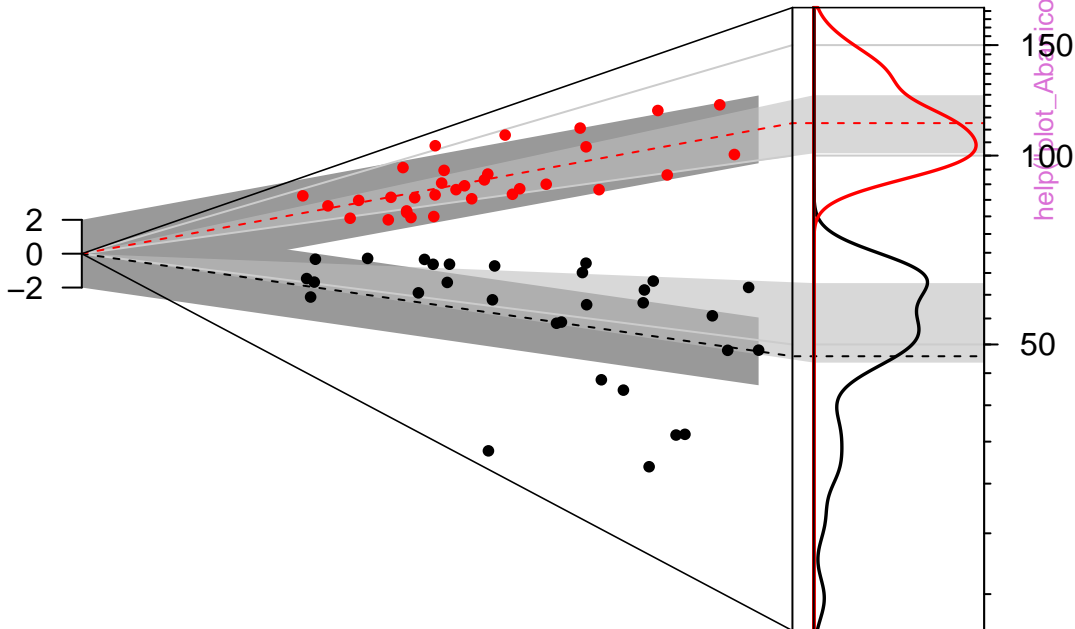


D_e distribution

n = 30 | in 2 sigma = 46.7 %

n = 32 | in 2 sigma = 87.5 %

Standardised estimate



help(plot_AbanicoPlot")

D_e [Gy]

help("plot_AbanicoPlot")

Relative standard error (%)

20

10

6.7

0

5

10

15

0.032

Precision

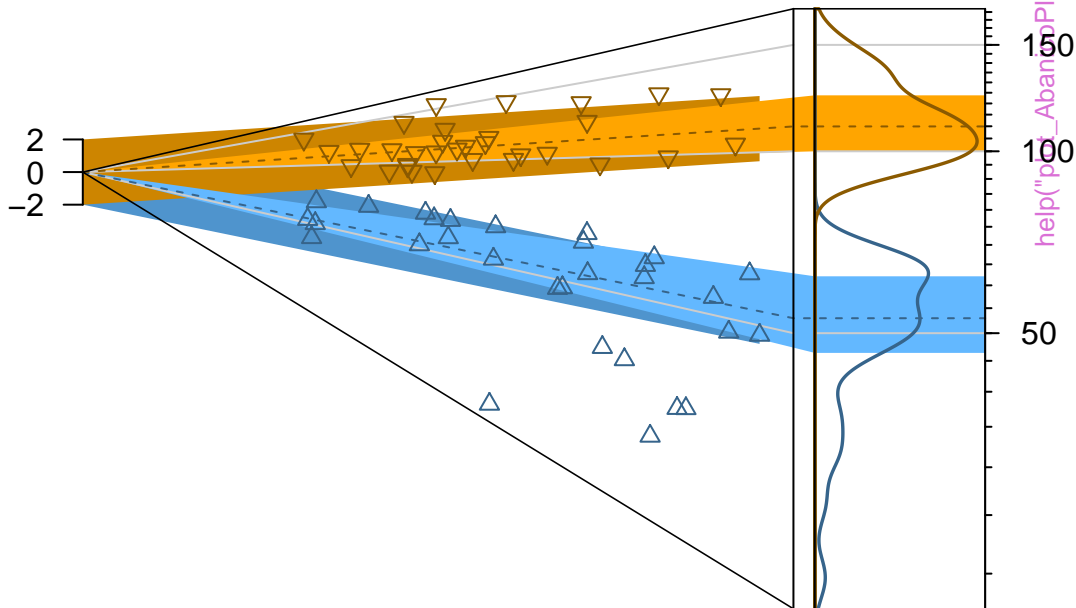
Density (bw 0.074)

D_e distribution

n = 30 | in 2 sigma = 70 % | median = 52.94

n = 32 | in 2 sigma = 84.4 % | median = 109.93

Standardised estimate



D_e [Gy]

Relative standard error (%)

20

10

6.7

0

5

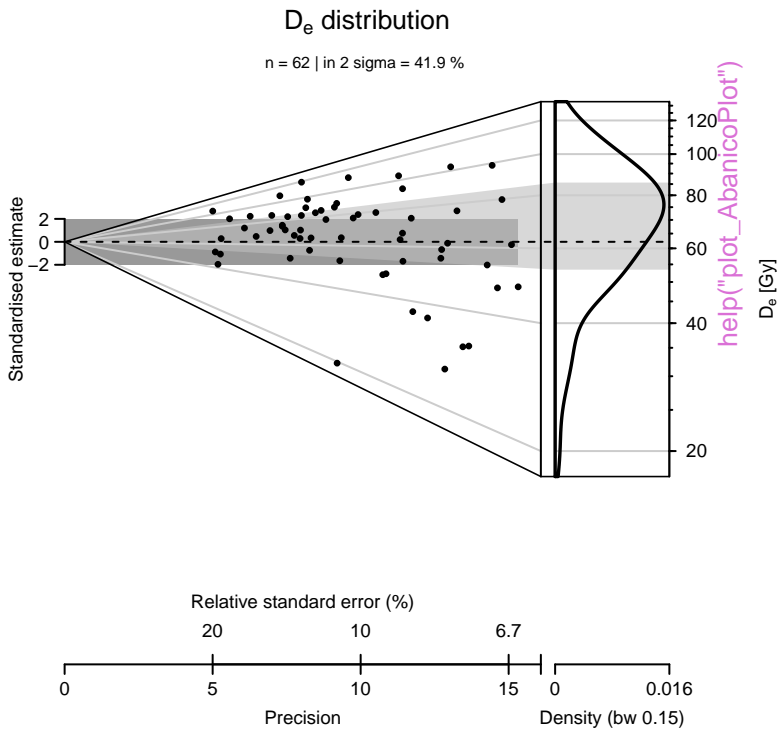
10

15

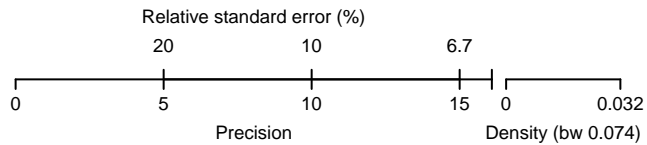
0.032

Precision

Density (bw 0.074)



help("plot_AbanicoPlot")



D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



Relative standard error (%)

20

10

6.7

0

5

10

15

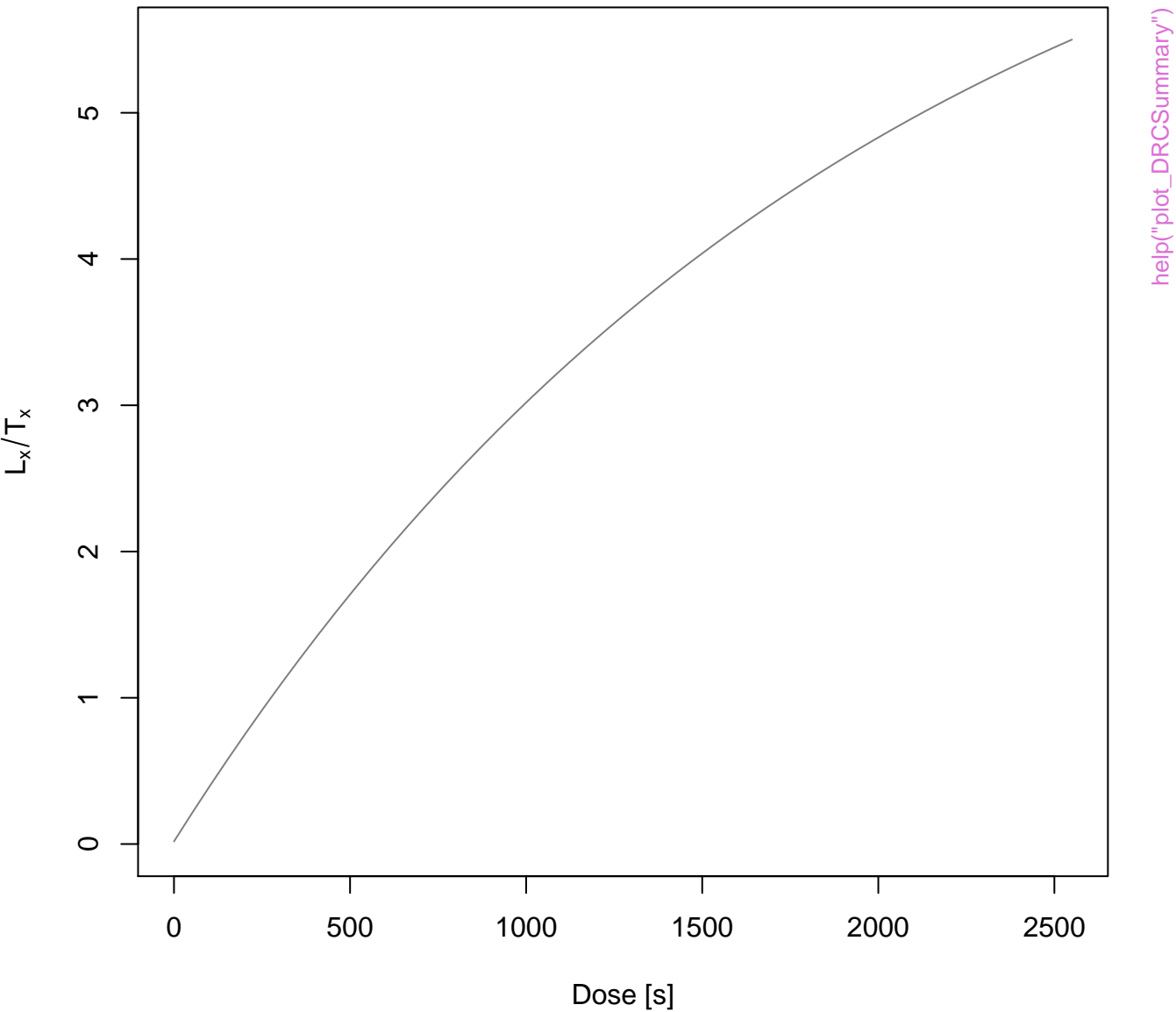
0.016

Precision

Density (bw 0.15)

help("plot_AbanicoPlot")

DRC Summary



Dose recovery test

Example data



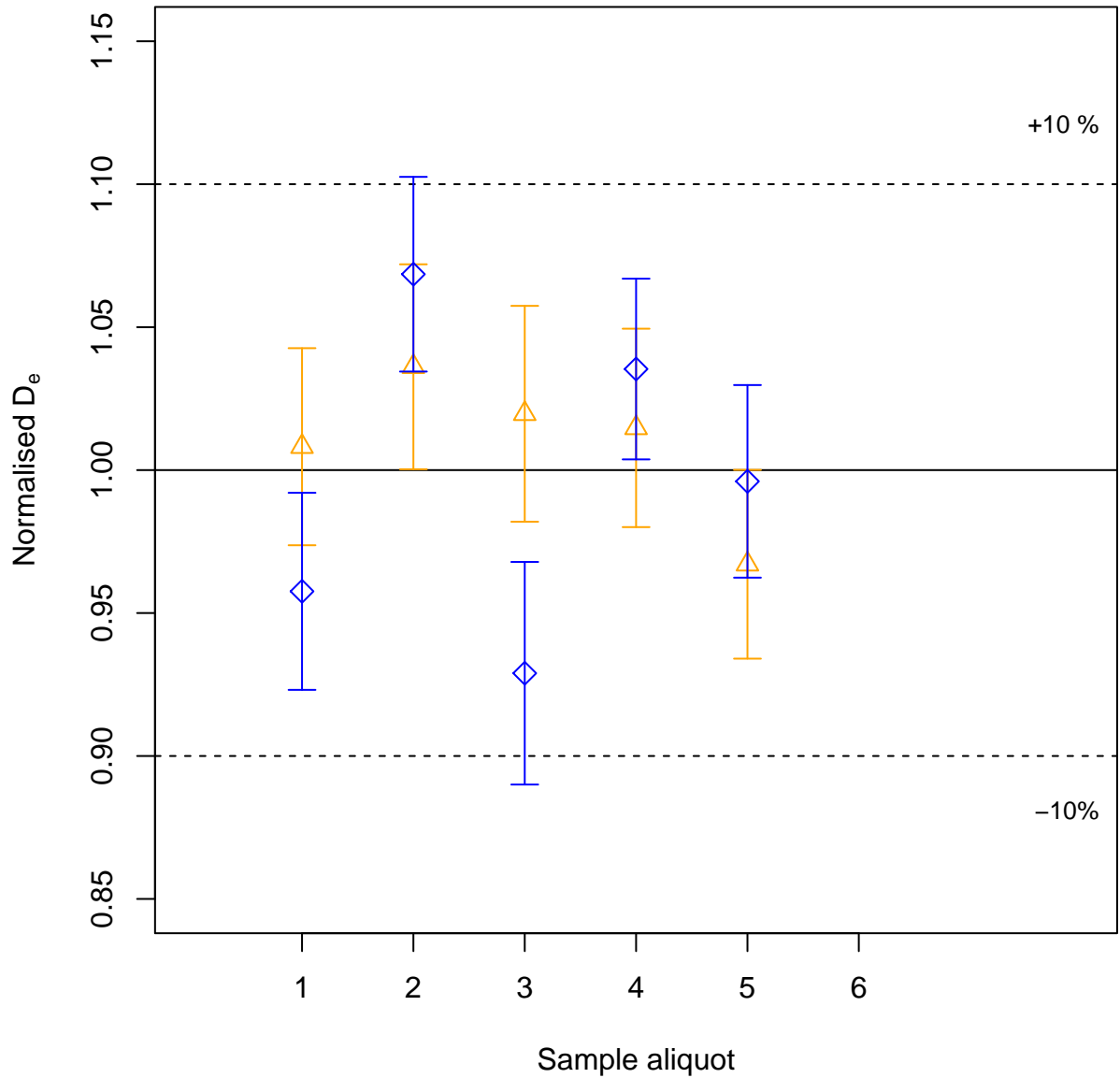
Dose recovery test



Dose recovery test



Dose recovery test



Dose recovery test



Dose recovery test

n = 5

n = 5



Dose recovery test

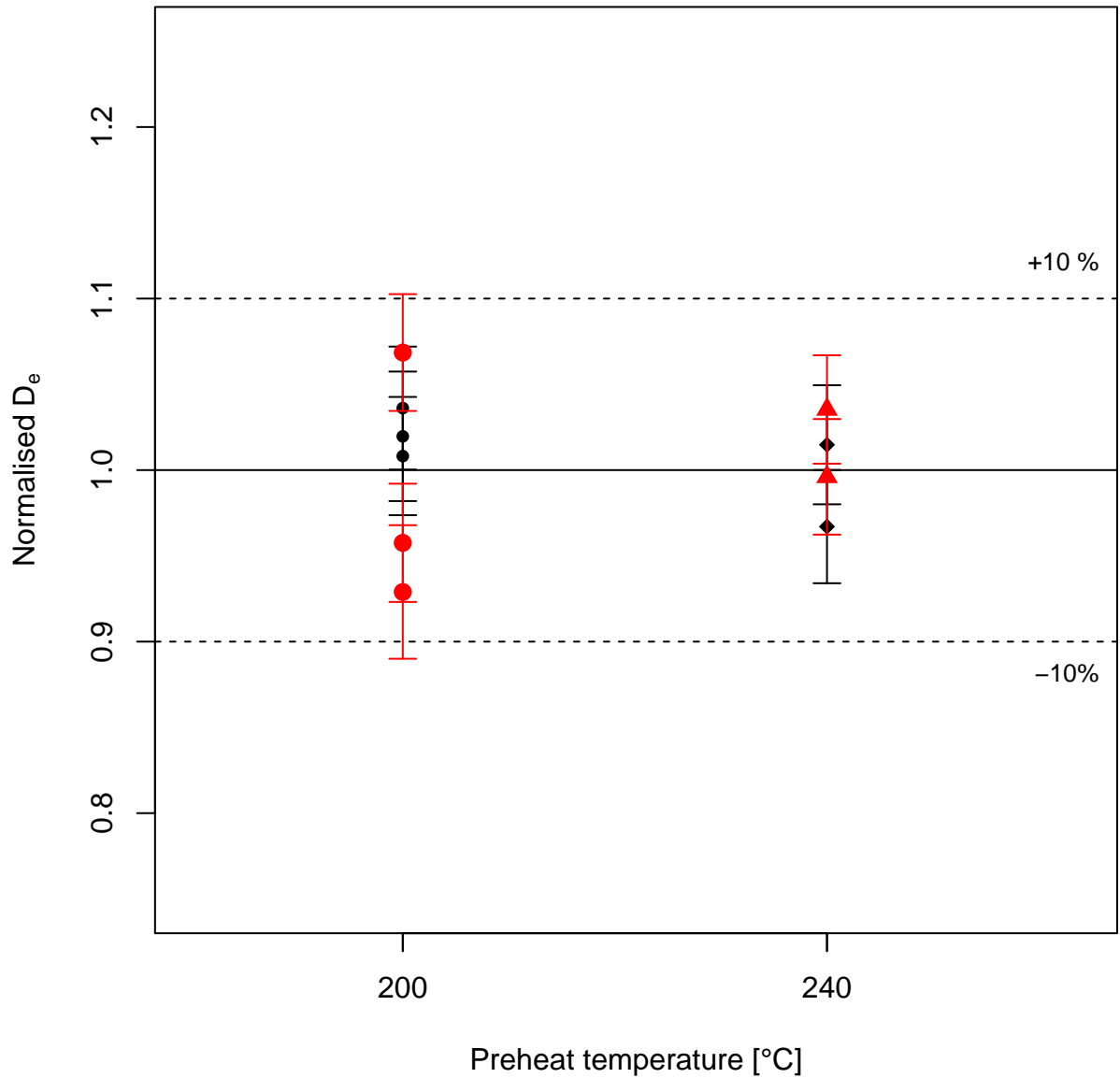


Dose recovery test

Example data



Dose recovery test



Dose recovery test



Filter Combination



Filter Combination





help("plot_FilterCombinations")

Growth curve

$D_e = 1737.88 \pm 57.45$ | fit: EXP



D_e from MC simulation

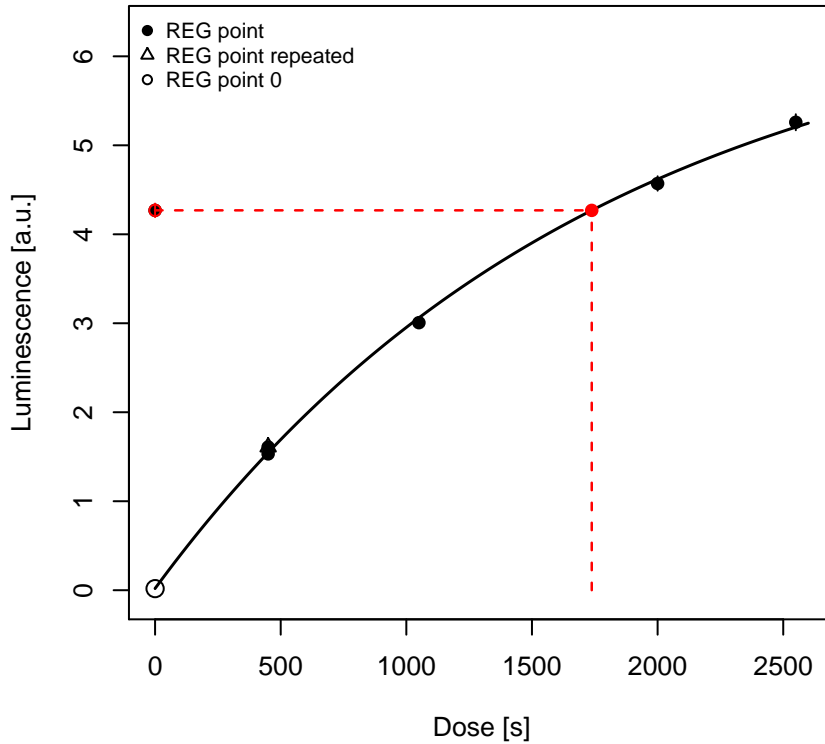


Test dose response



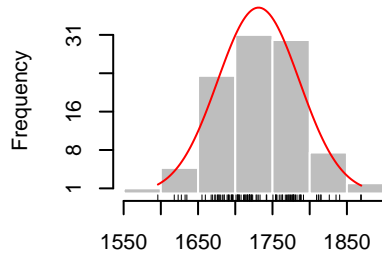
Growth curve

$D_e = 1737.88 \pm 54.9$ | fit: EXP



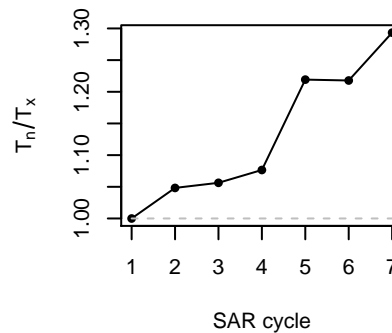
D_e from MC simulation

$D_{eMC} = 1731.23 \pm 54.9$ | quality = 99.6 %



Dose [s]
n = 100 , valid fits = 100

Test dose response



Growth curve

$D_e = 1737.88 \pm 64.53$ | fit: EXP



D_e from MC simulation

D_{eMC} = 1745.42 ± 64.53 | quality = 99.6 %



Test dose response



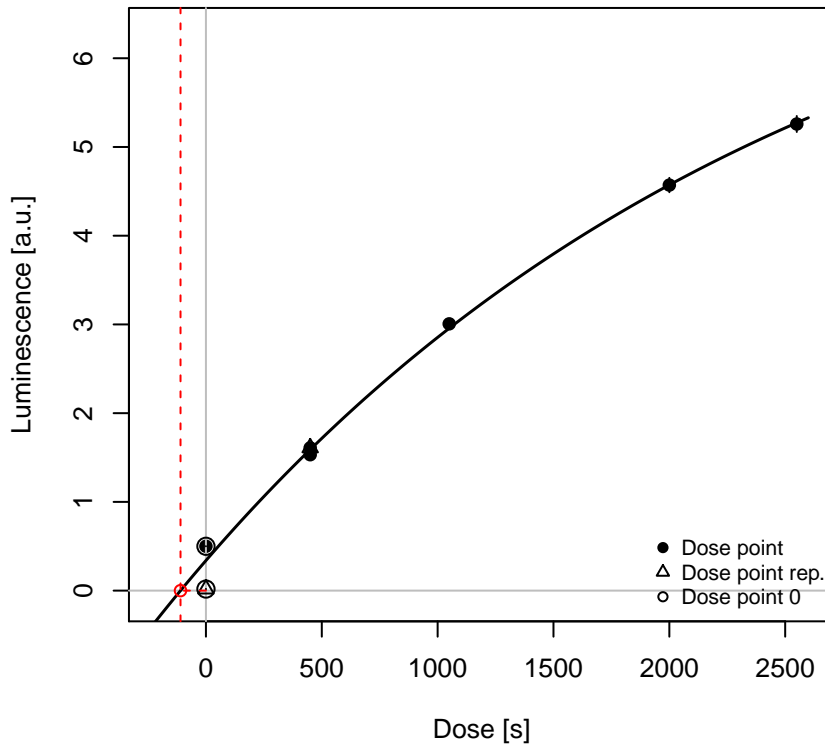
help("plot_GrowthCurve")



help("plot_GrowthCurve")

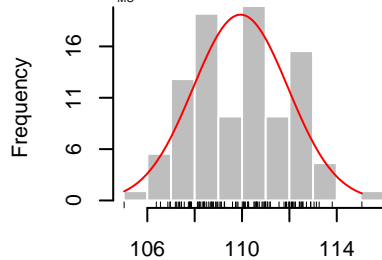
Growth curve

$D_e = 109.74 \pm 2$ | fit: EXP



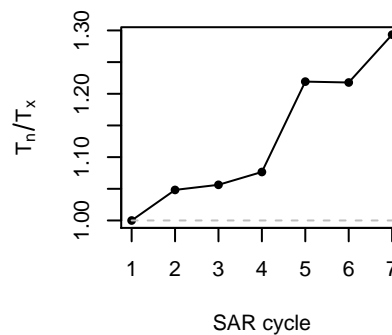
D_e from MC simulation

$D_{eMC} = 109.94 \pm 2$ | quality = 300.2 %



n = 100 , valid fits = 100

Test dose response



Growth curve



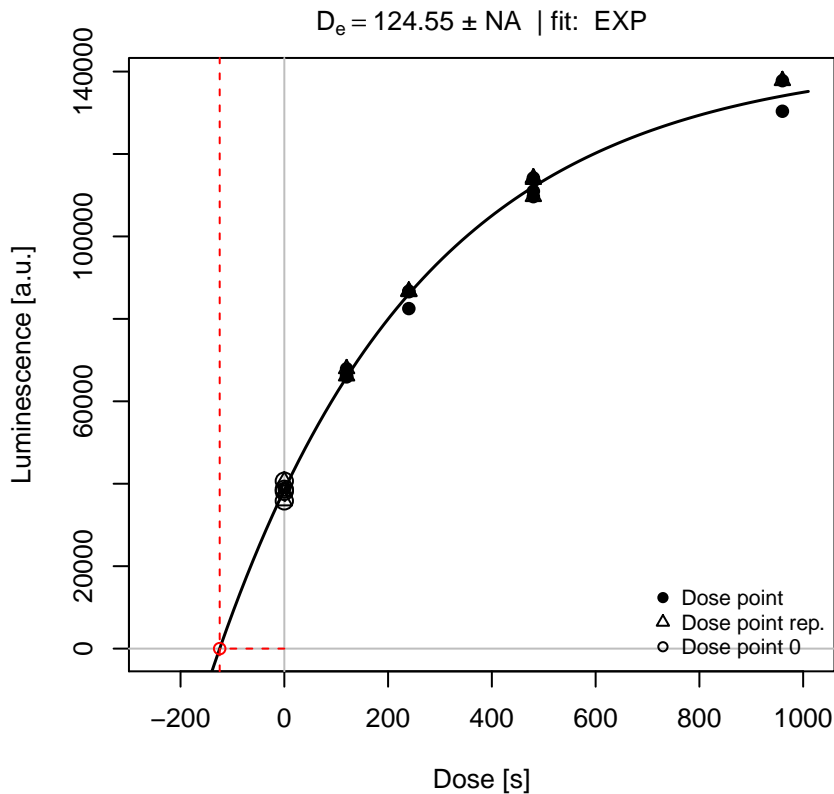
D_e from Monte Carlo simulation



Test dose response



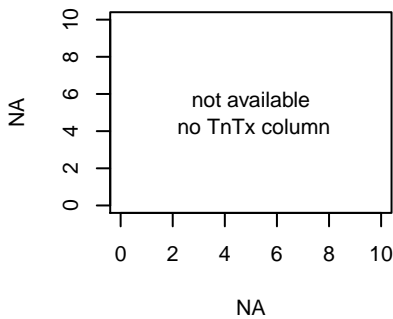
Growth curve



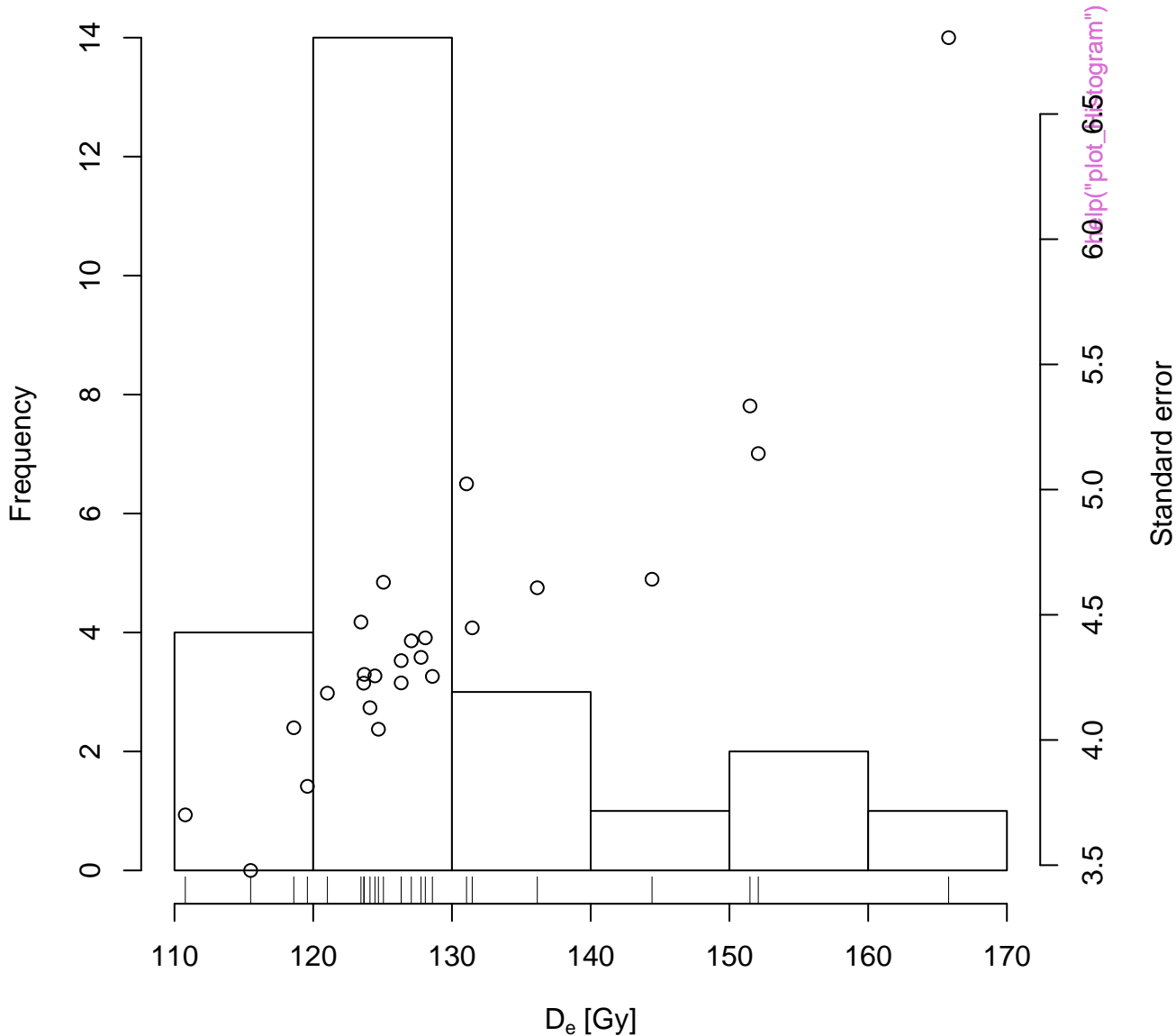
D_e from Monte Carlo simulation



Test dose response



Histogram



Histogram of De-values

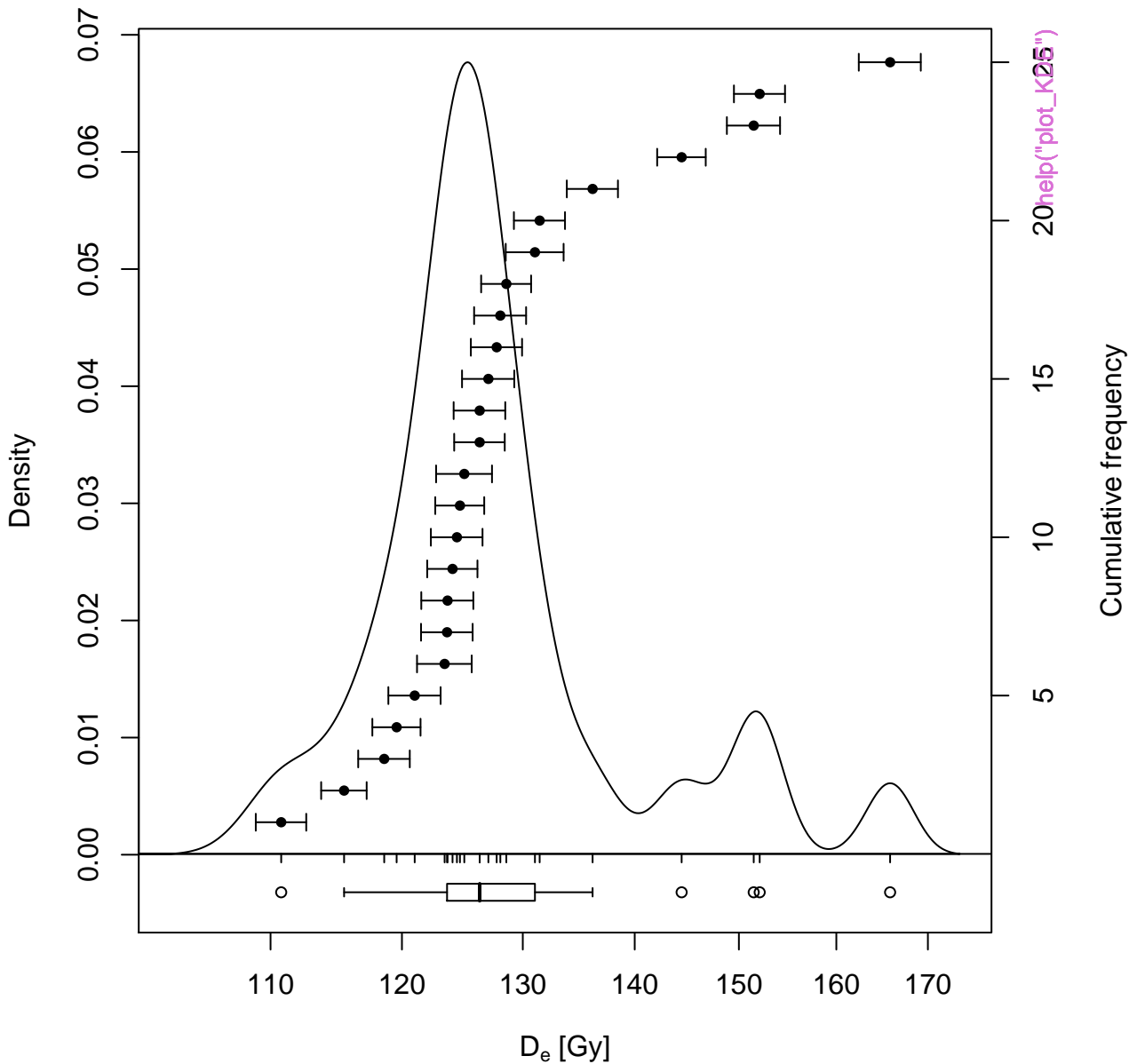
Example data set



D_e distribution



D_e distribution



Dose distribution

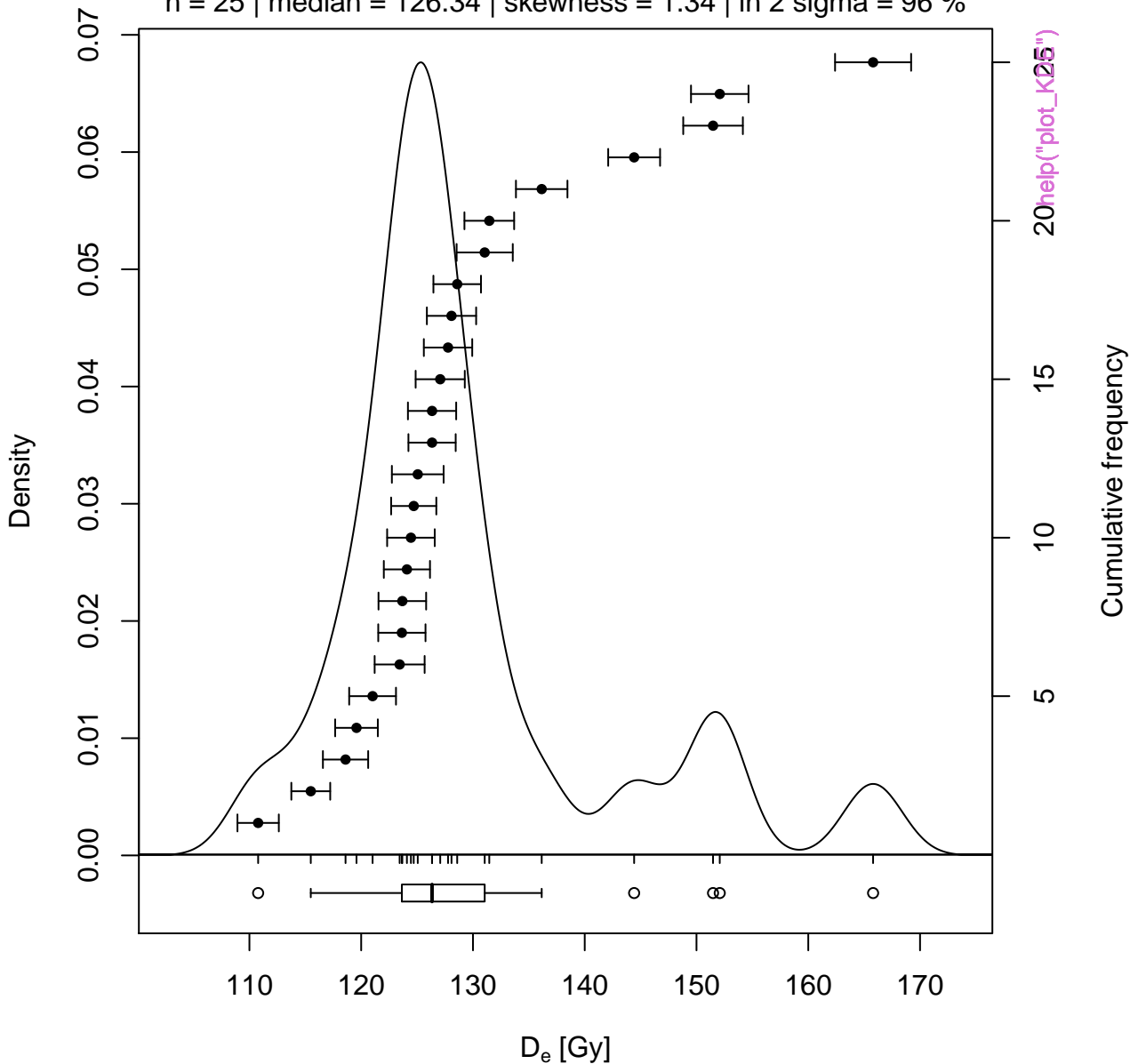


D_e distribution



D_e distribution

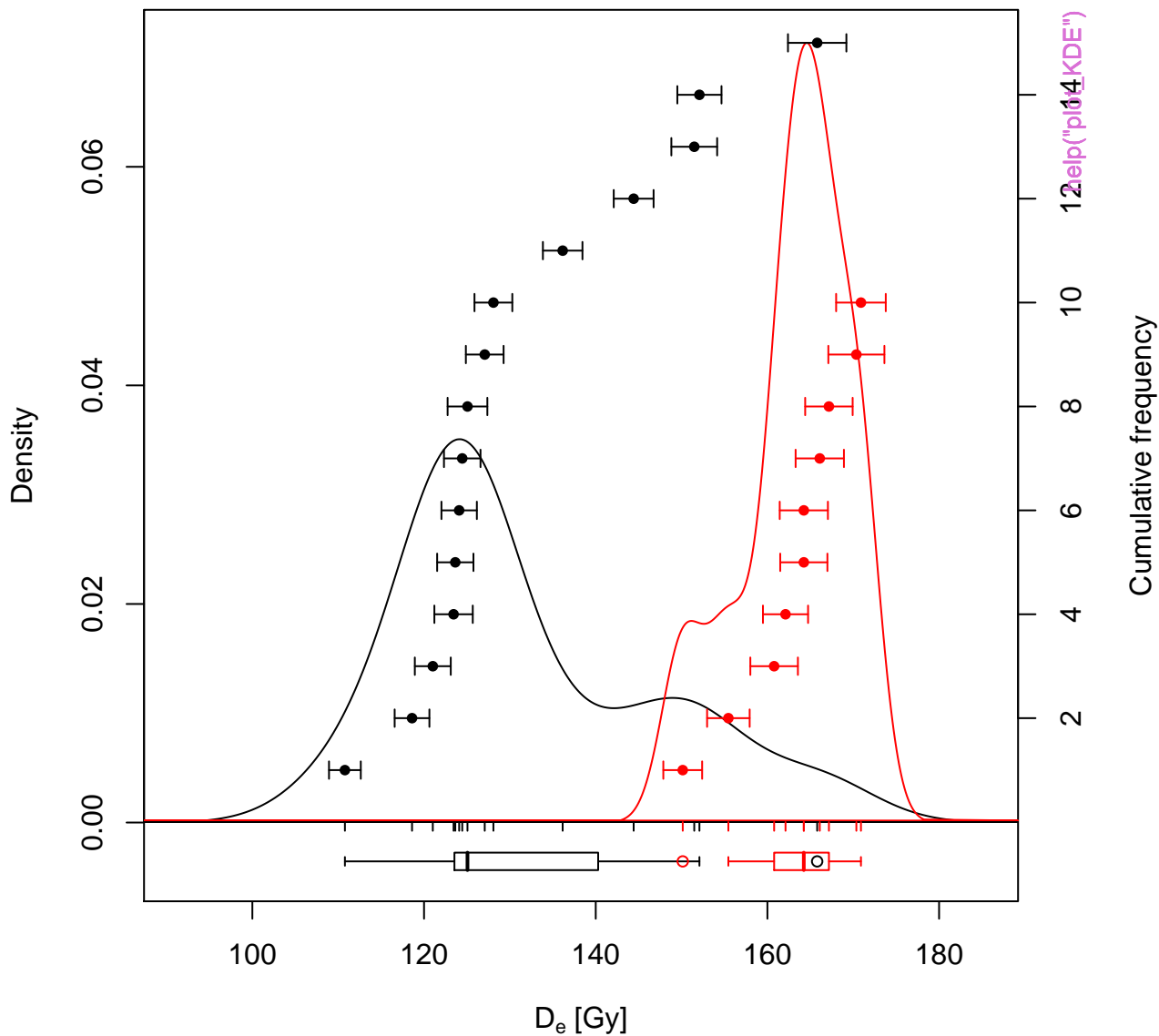
n = 25 | median = 126.34 | skewness = 1.34 | in 2 sigma = 96 %



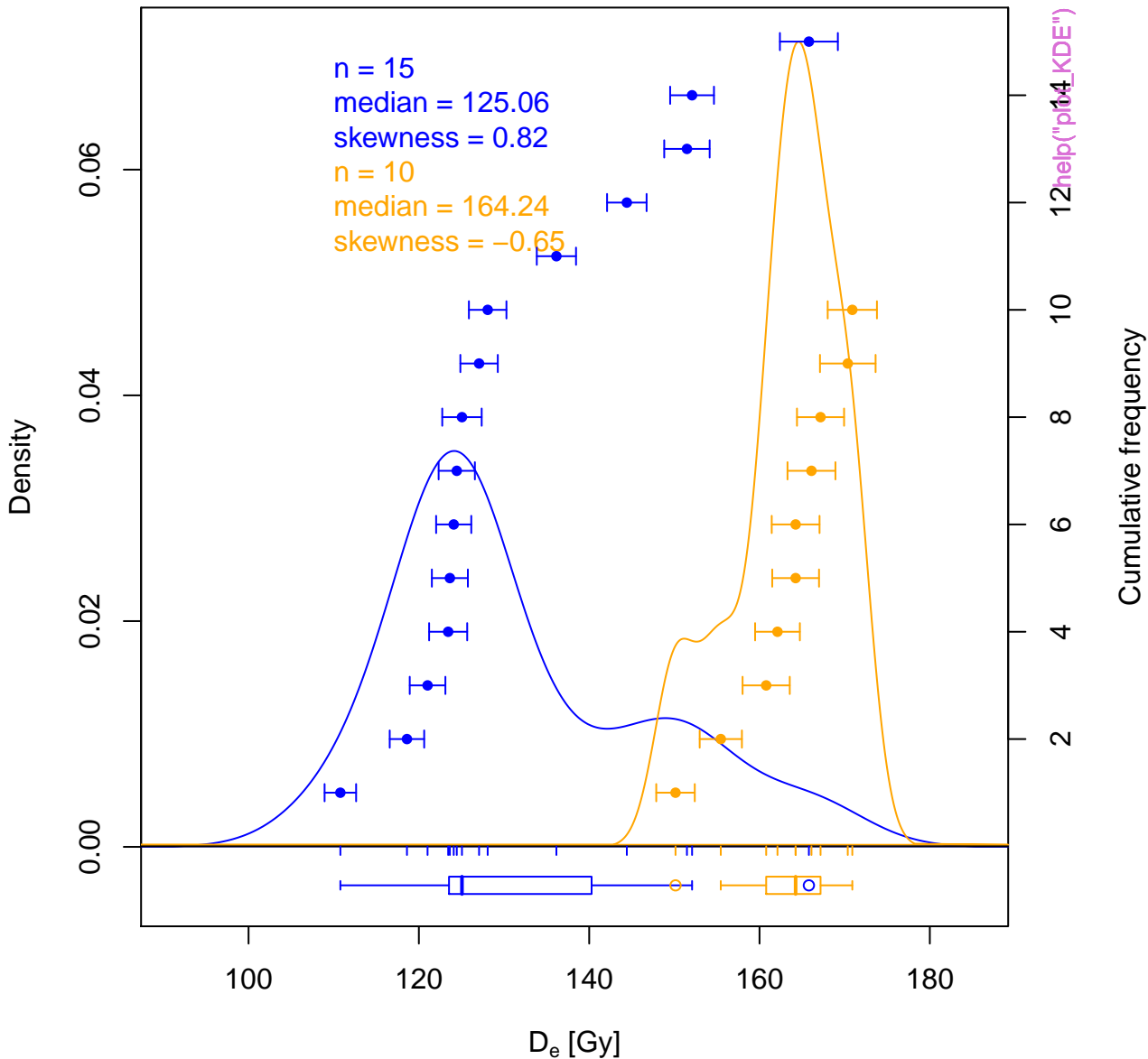
D_e distribution



D_e distribution



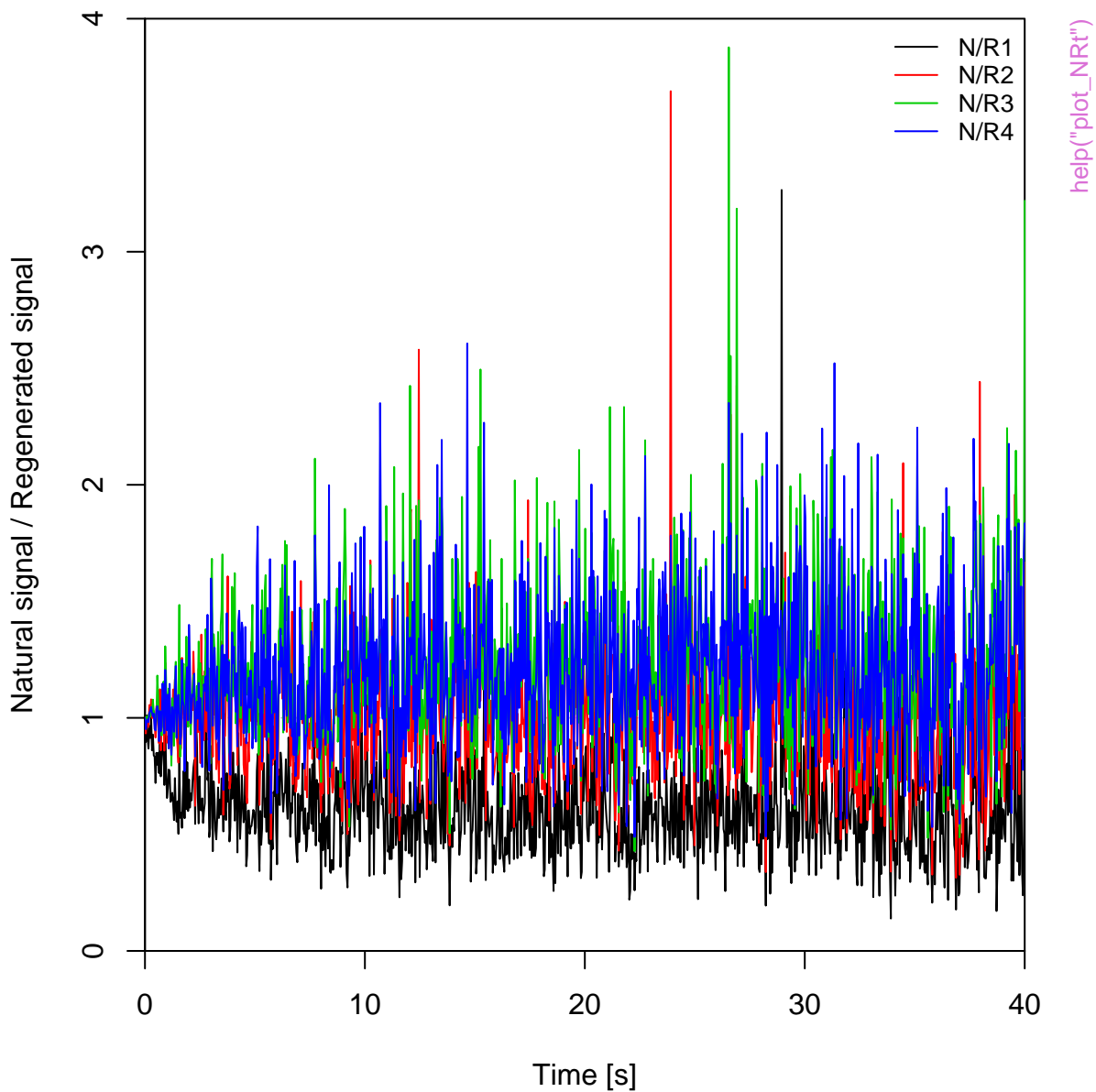
D_e distribution



D_e distribution



NR(t) Plot



NR(t) Plot



help("plot_NRt")

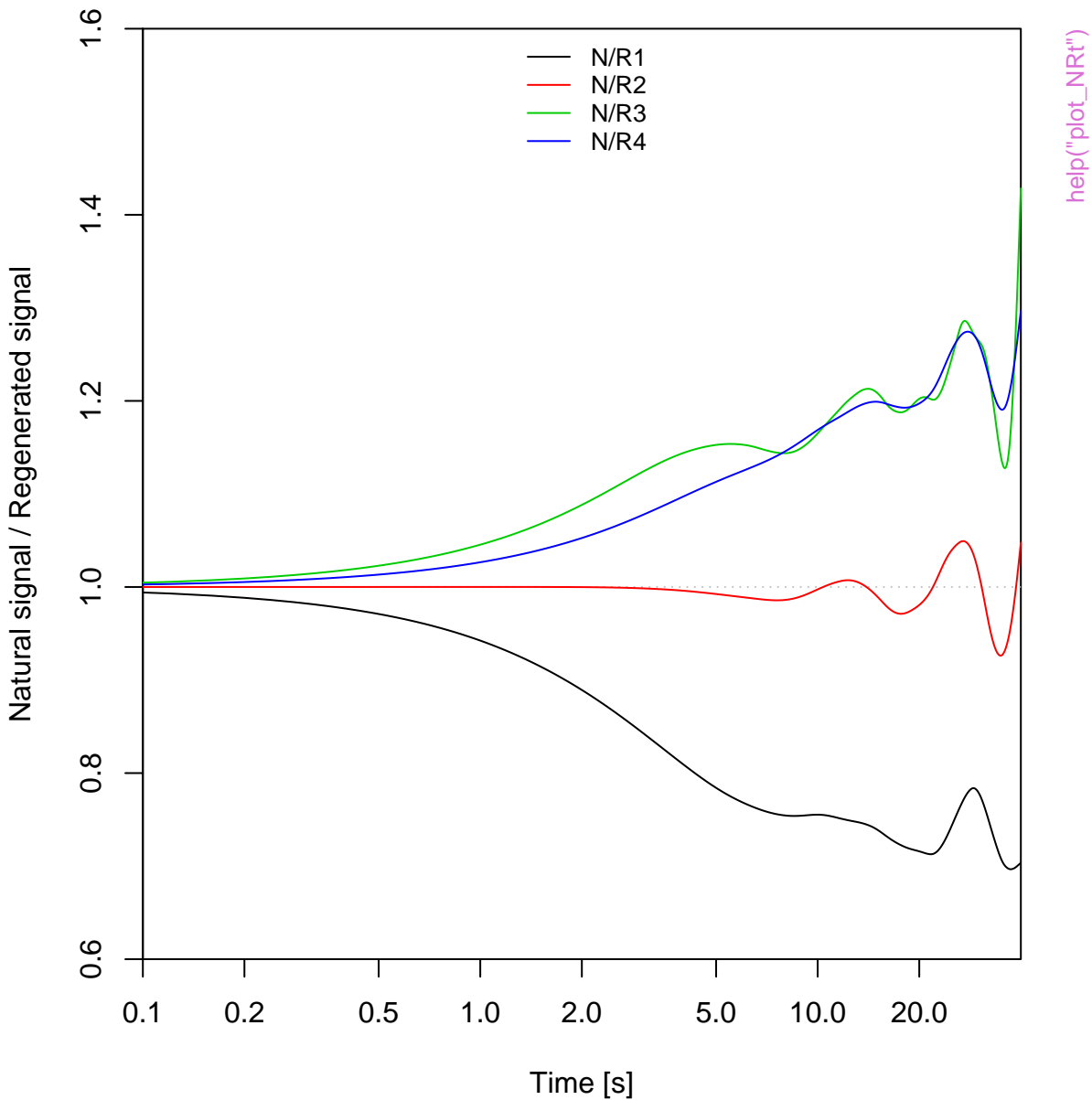
NR(t) Plot



NR(t) Plot

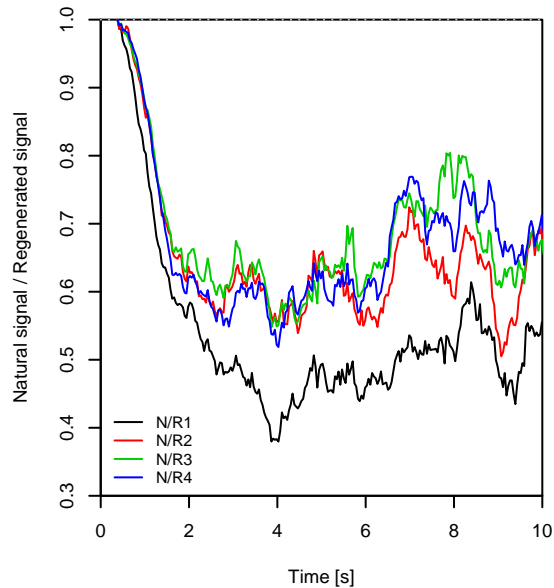


NR(t) Plot



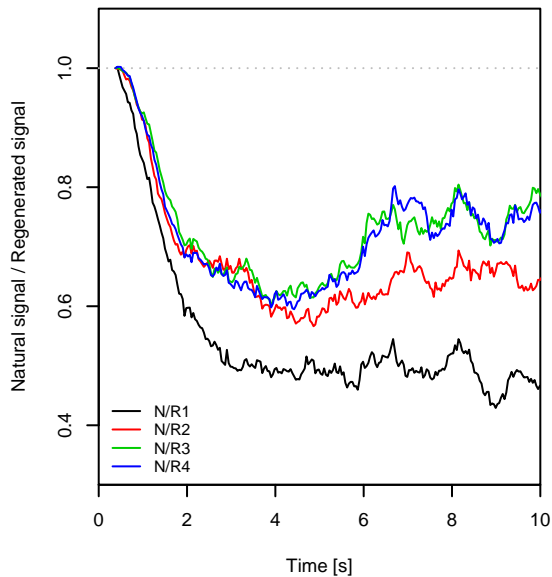
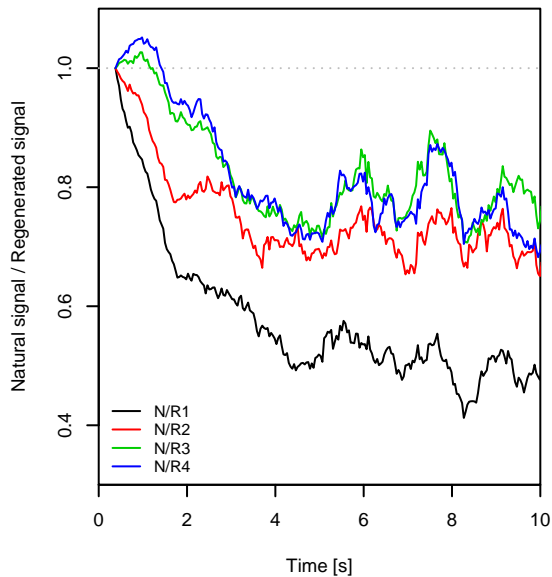
TnTx(t) Plot

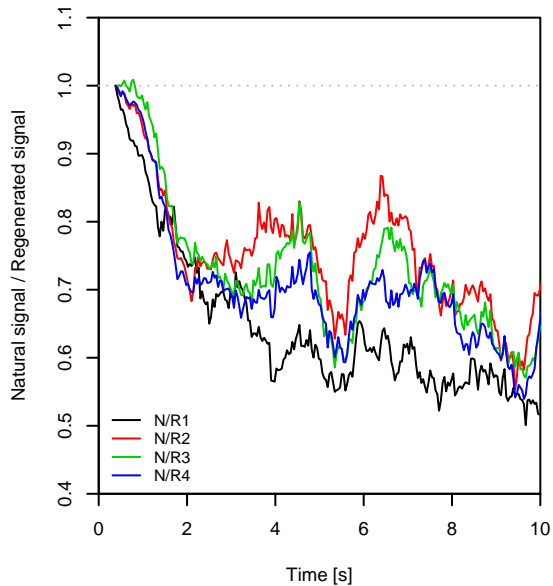
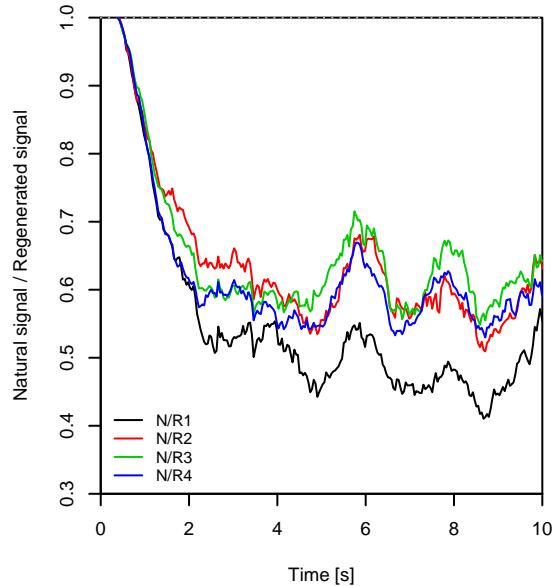


Aliquot #1**Aliquot #2**

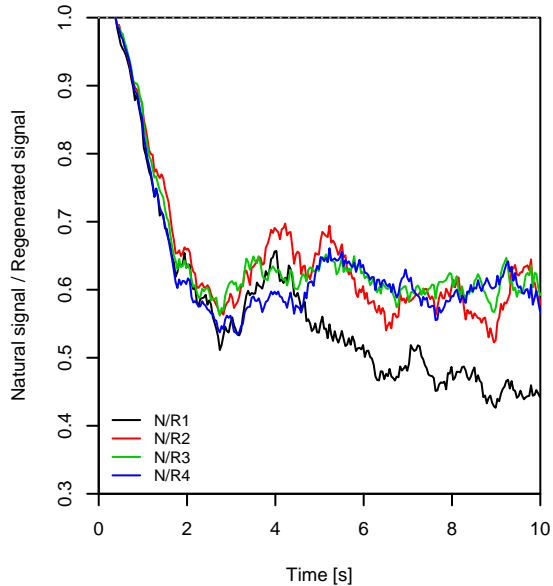
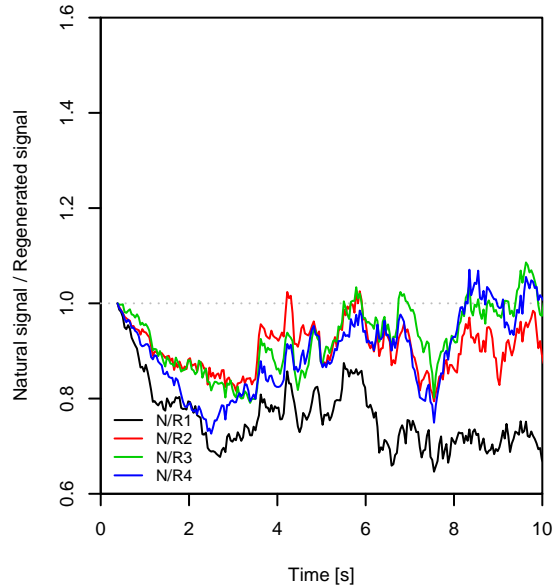
help("plot_NRt")

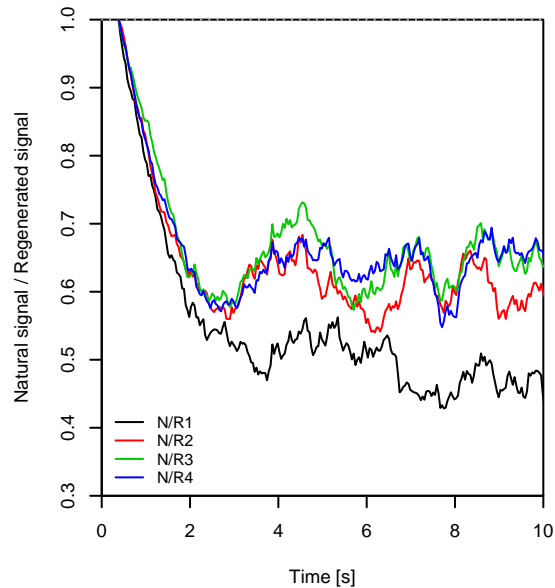
Aliquot #3**Aliquot #4**

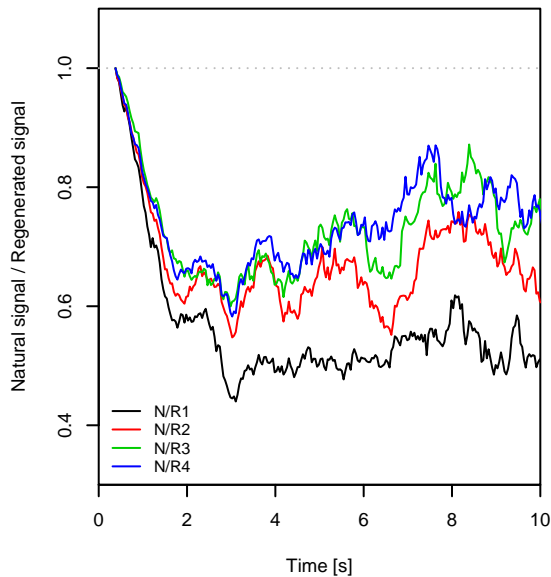
Aliquot #5**Aliquot #6****Aliquot #7****Aliquot #8**

Aliquot #9**Aliquot #10**

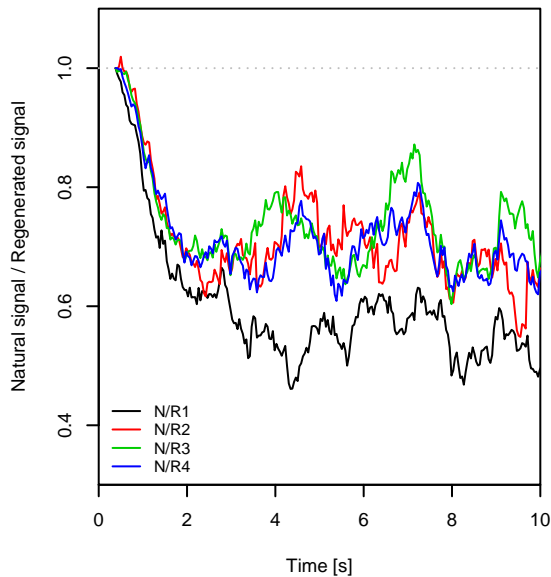
help("plot_NRt")

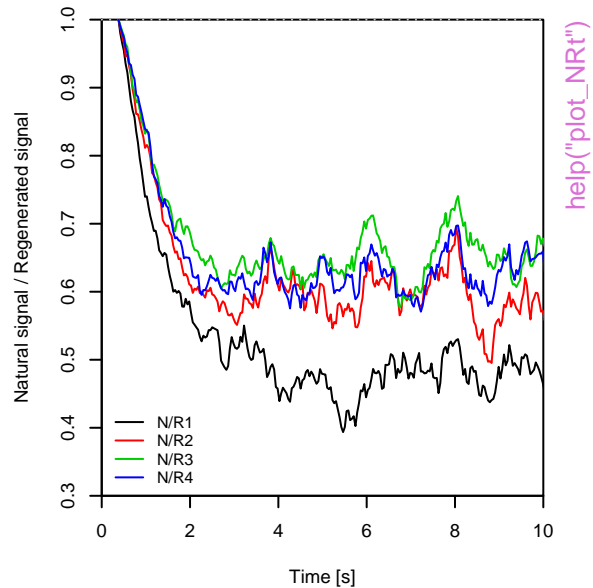
Aliquot #11**Aliquot #12**

Aliquot #13**Aliquot #14****Aliquot #15****Aliquot #16**

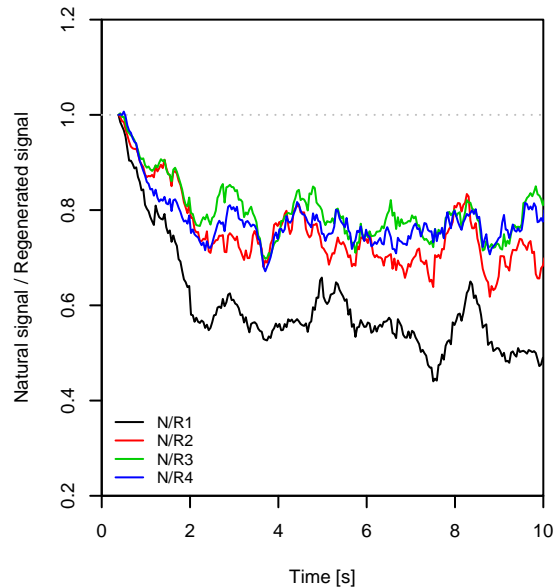
Aliquot #17**Aliquot #18**

help("plot_NRt")

Aliquot #19**Aliquot #20**

Aliquot #21**Aliquot #22**

help("plot_NRt")

Aliquot #23**Aliquot #24**

TL combined



TL combined



unkown curve type



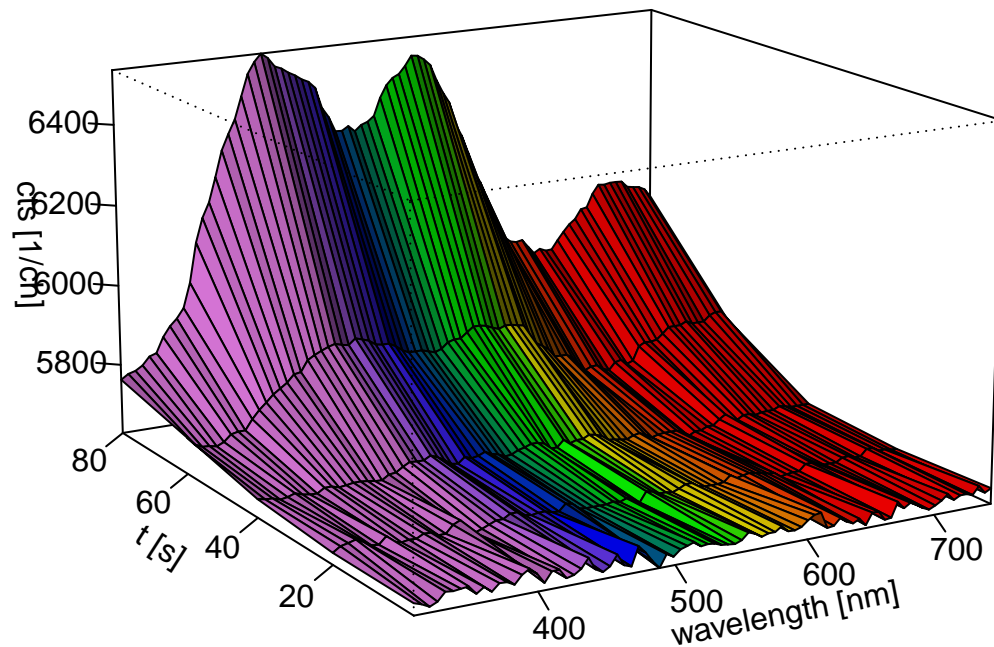
RLum.Data.Image



RLum.Data.Spectrum



RLum.Data.Spectrum



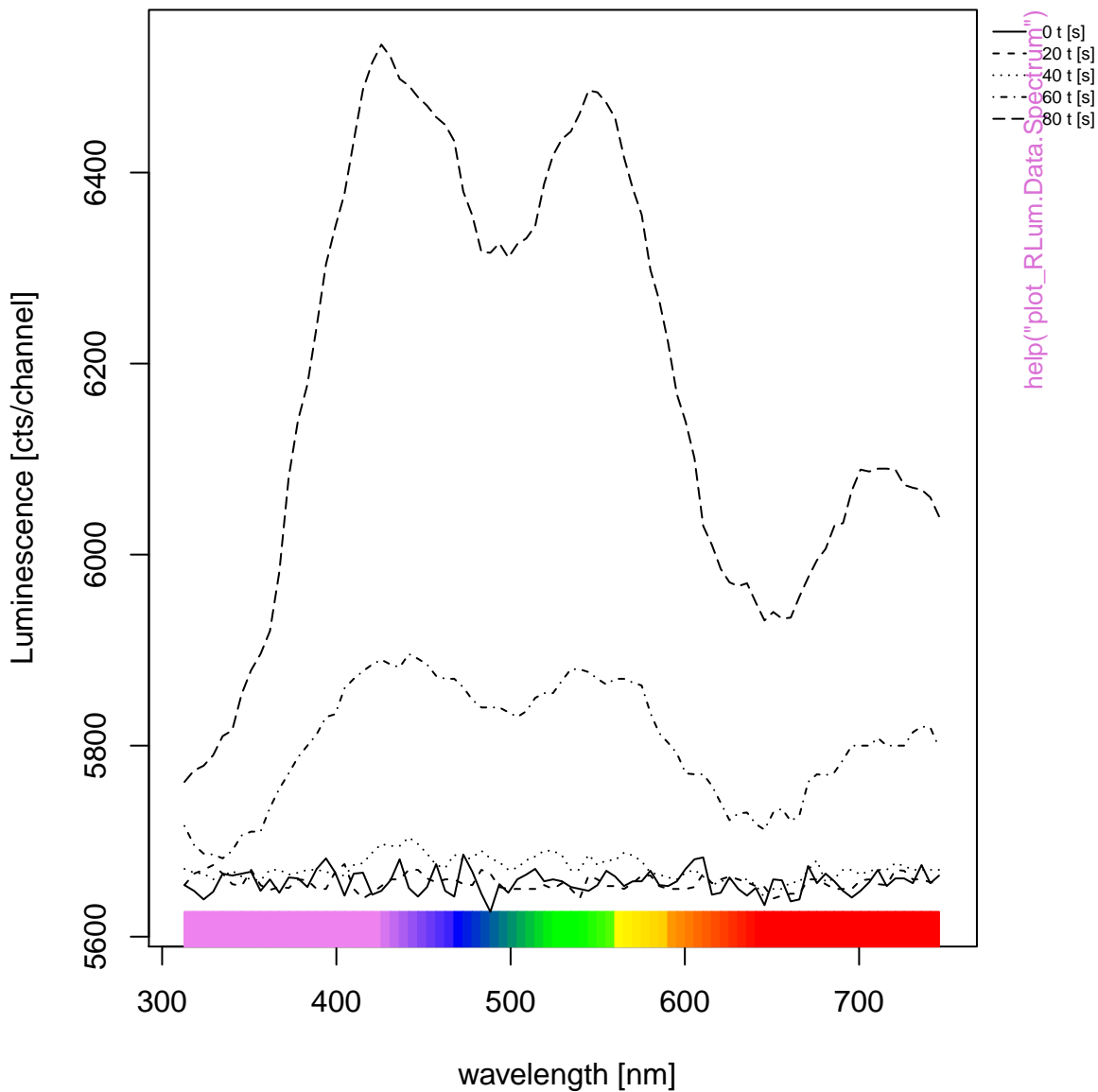
`help("plot_RLum.Data.Spectrum")`

RLum.Data.Spectrum



[help\("plot_RLum.Data.Spectrum"\)](#)

RLum.Data.Spectrum



unkown curve type



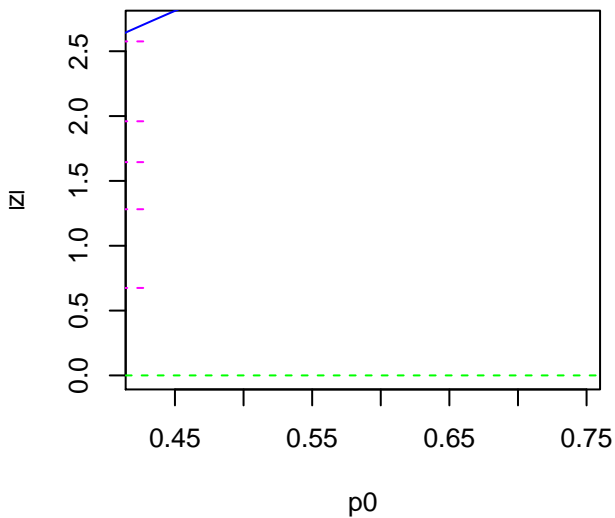
Likelihood profile: gamma



Likelihood profile: sigma

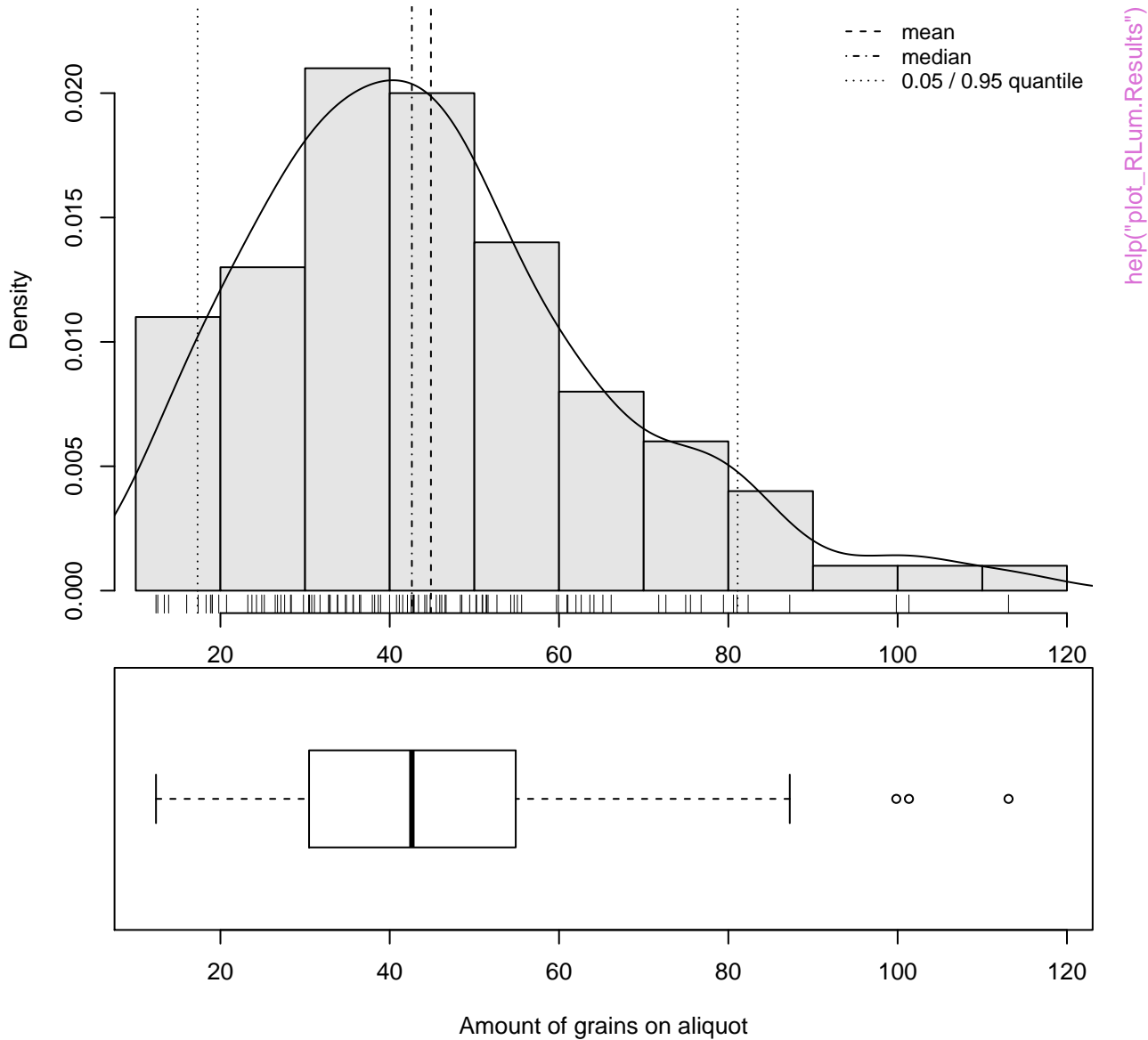


Likelihood profile: p0



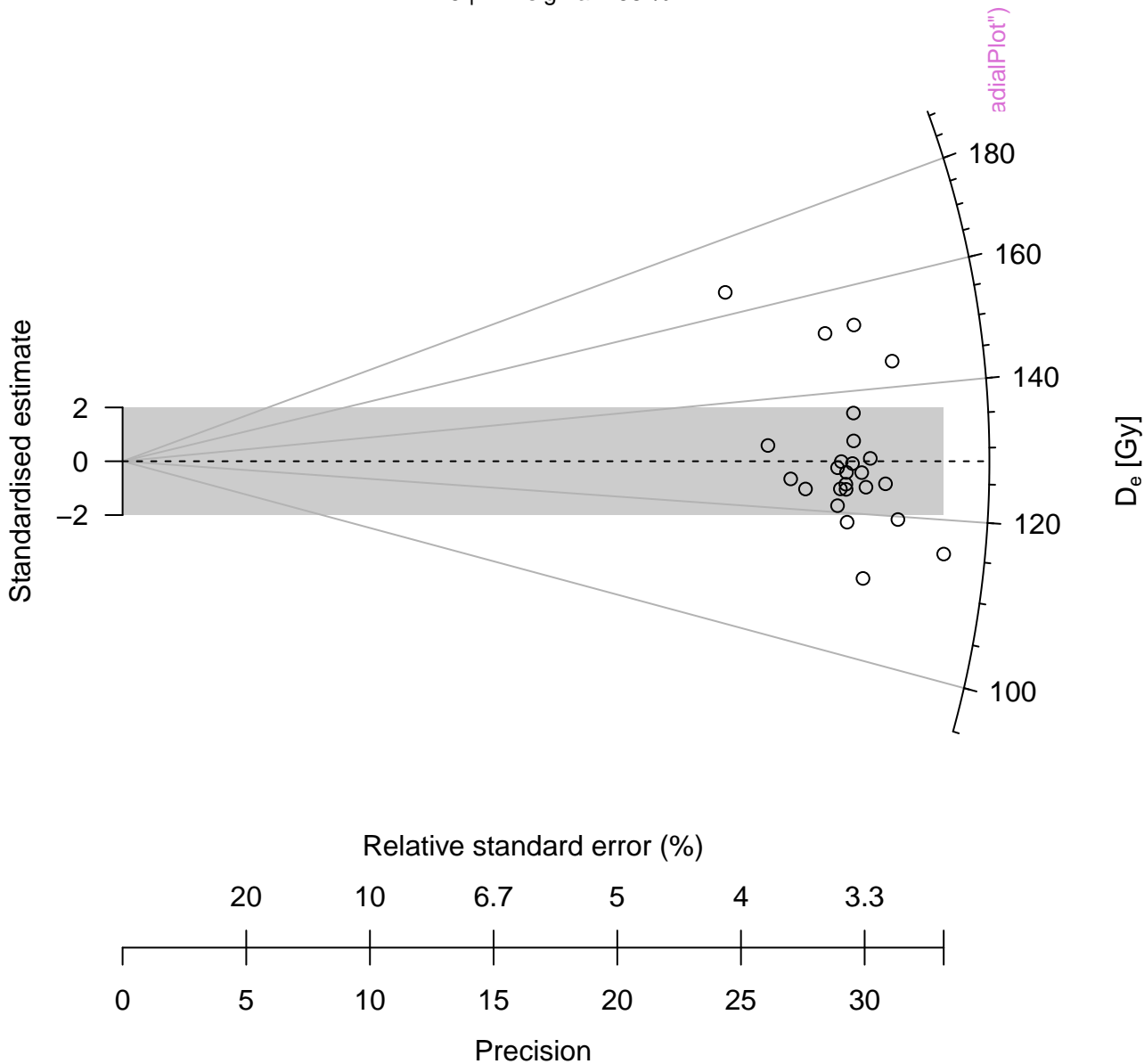
Monte Carlo Simulation

$$n = \left| \hat{\mu} = 45 \mid \hat{\sigma} = 21 \mid \frac{\hat{\sigma}}{\sqrt{n}} = 2 \mid v = 0.84 \right.$$



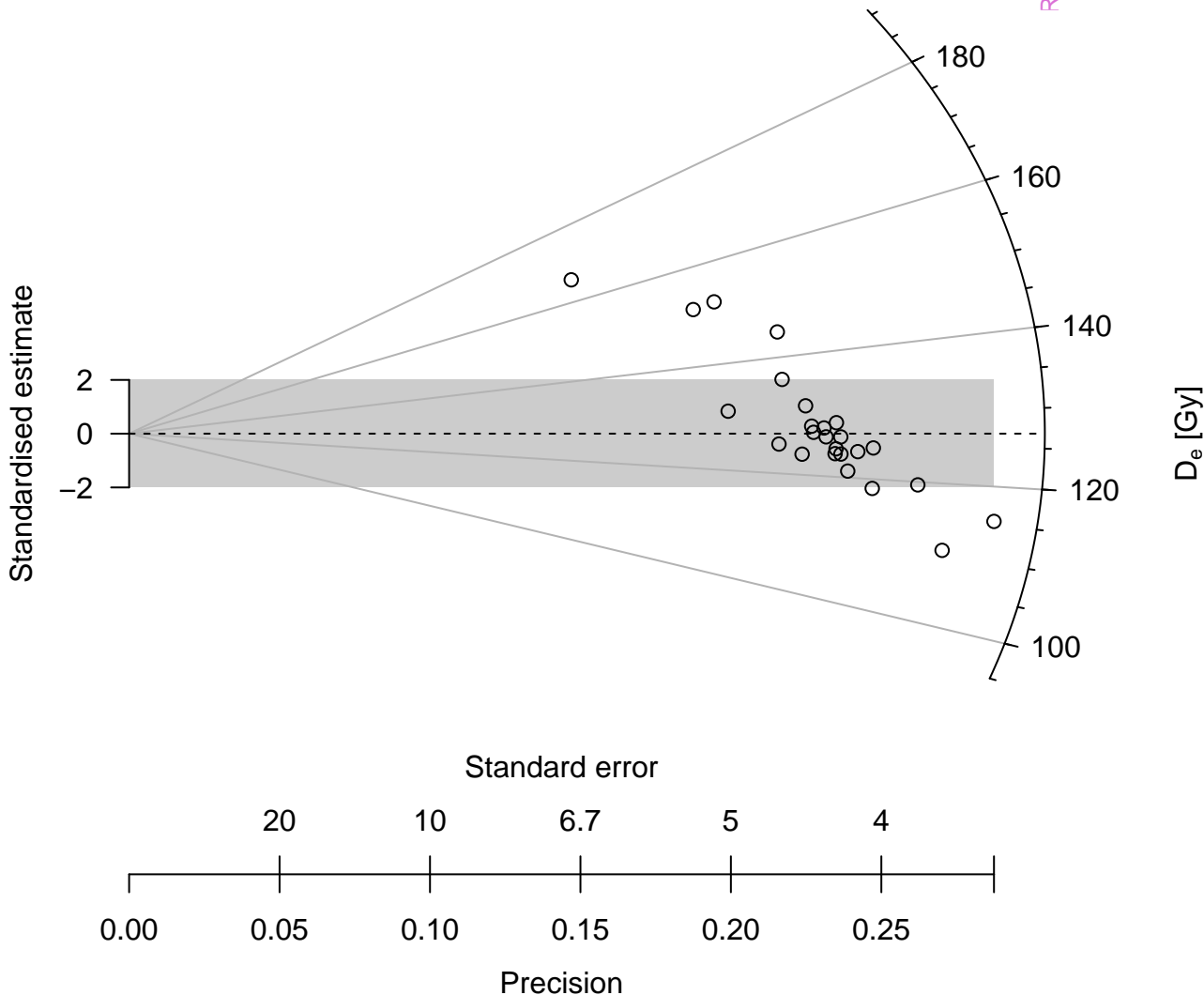
D_e distribution

n = 25 | in 2 sigma = 68 %



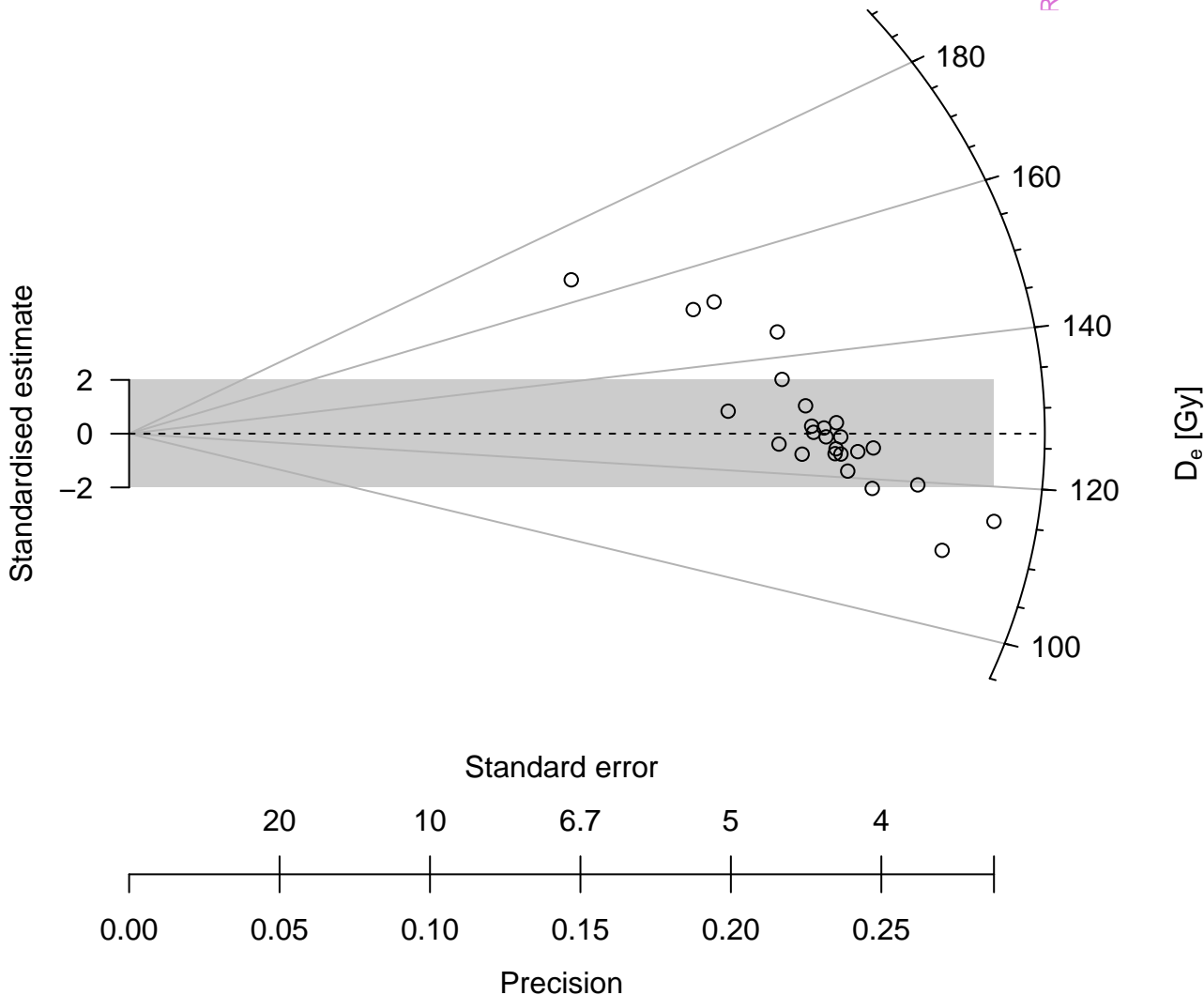
D_e distribution

n = 25 | in 2 sigma = 68 %



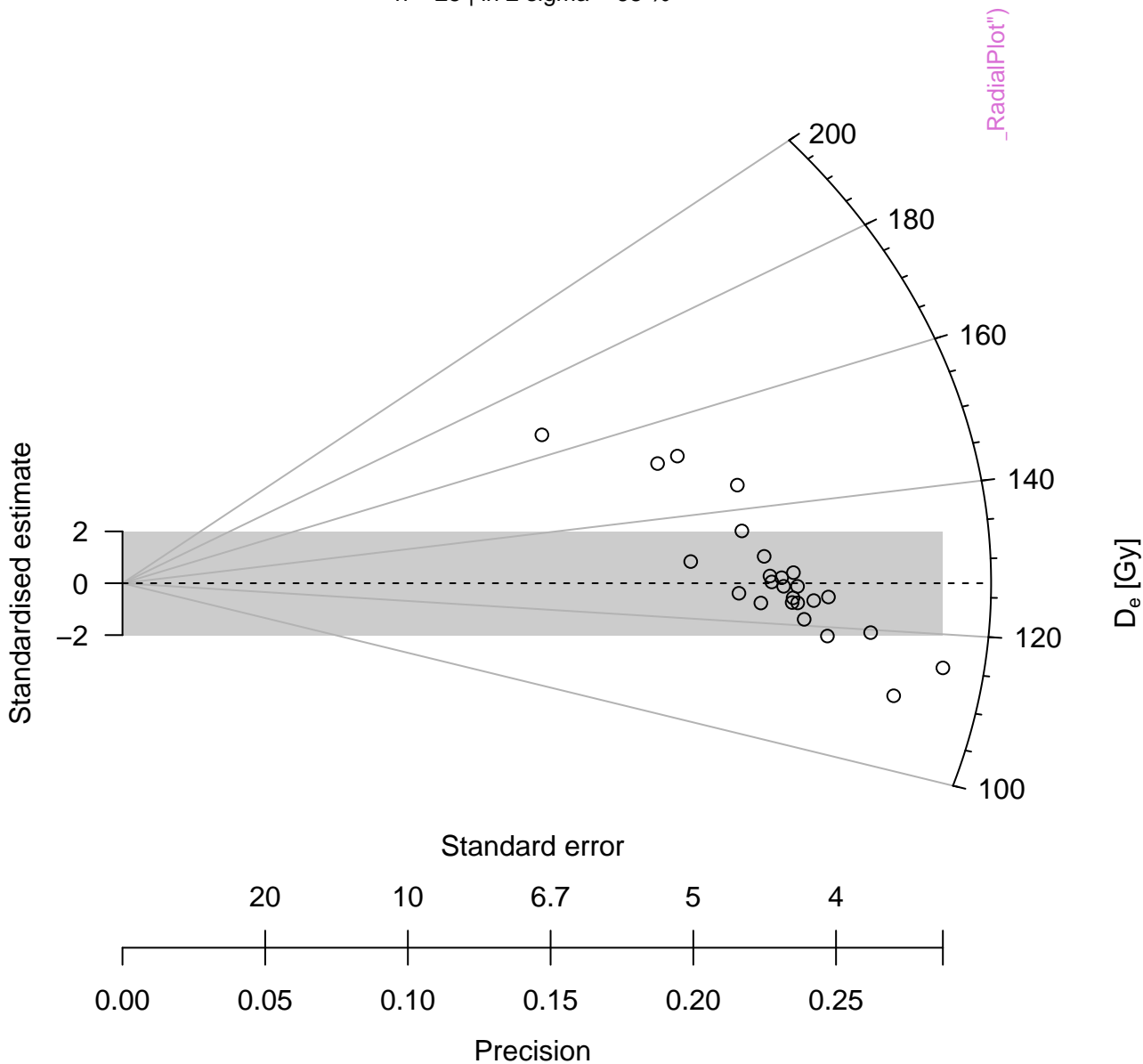
D_e distribution

n = 25 | in 2 sigma = 68 %



D_e distribution

n = 25 | in 2 sigma = 68 %



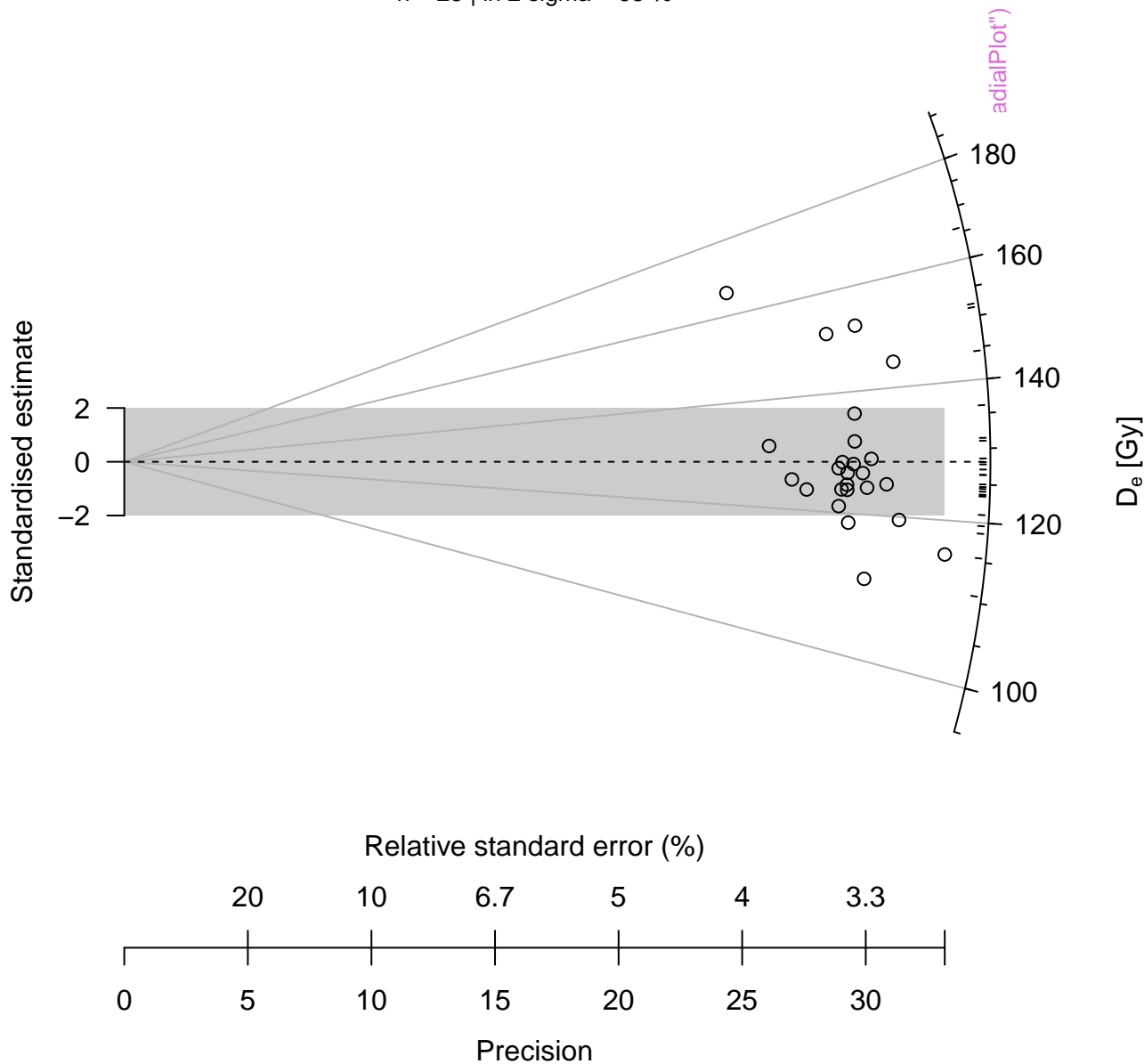
D_e distribution

n = 25 | in 2 sigma = 68 %



D_e distribution

n = 25 | in 2 sigma = 68 %



D_e distribution

n = 25 | in 2 sigma = 68 %

radialPlot()

180

160

140

120

100

D_e [Gy]

R

R

R

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R

R

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Relative standard error (%)

20

10

6.7

5

4

3.3

0

5

10

15

20

25

30

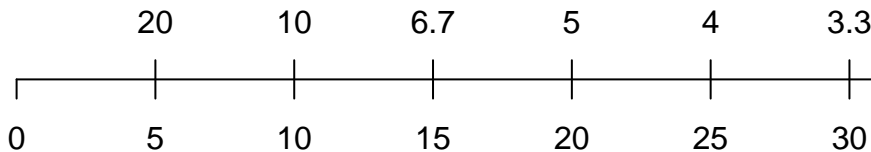
Precision

D_e distribution

n = 25 | in 2 sigma = 68 %

Standardised estimate

0



Relative standard error (%)

0

5

10

15

20

25

30

Precision

adialPlot")

180

160

140

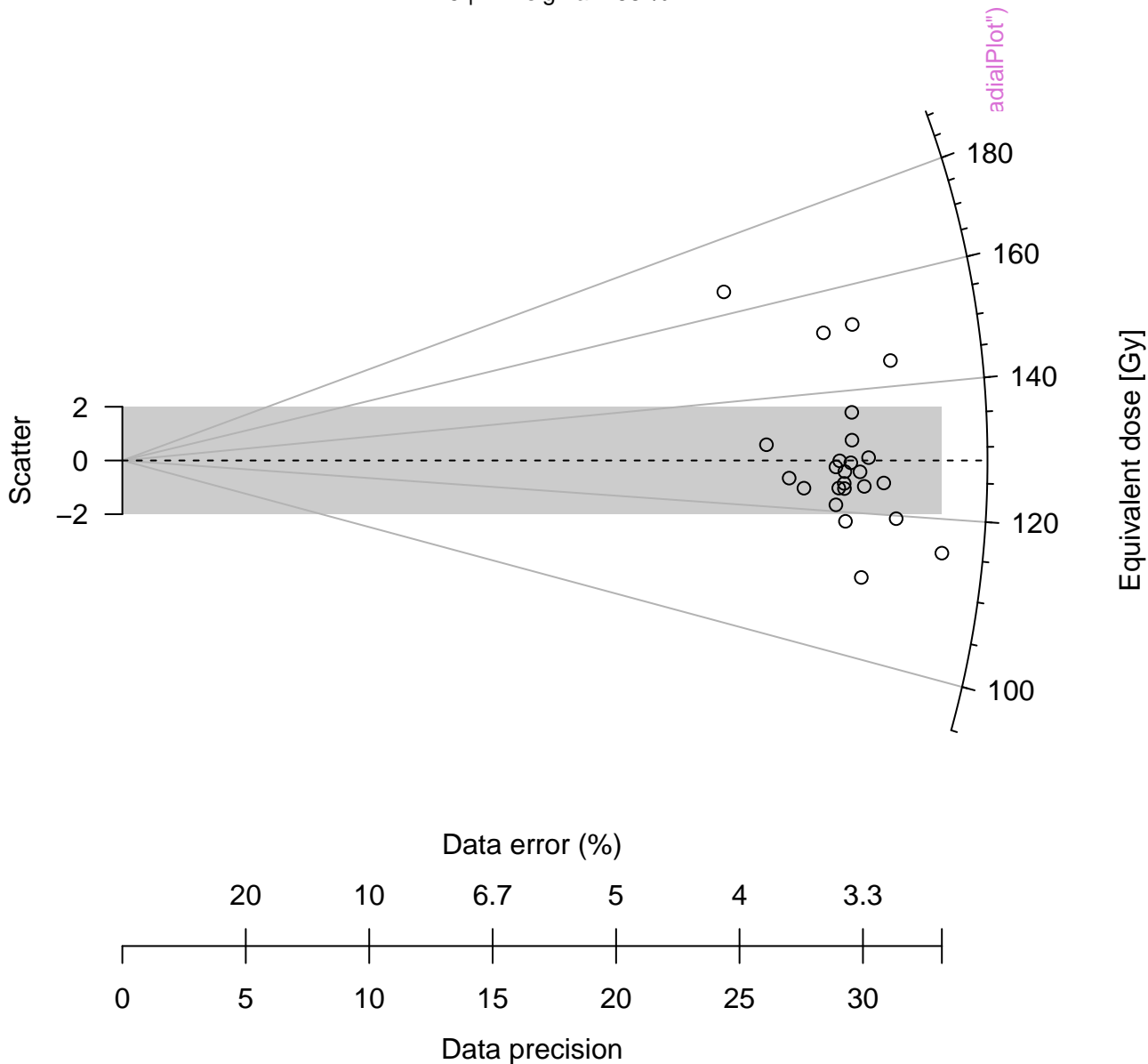
120

100

D_e [Gy]

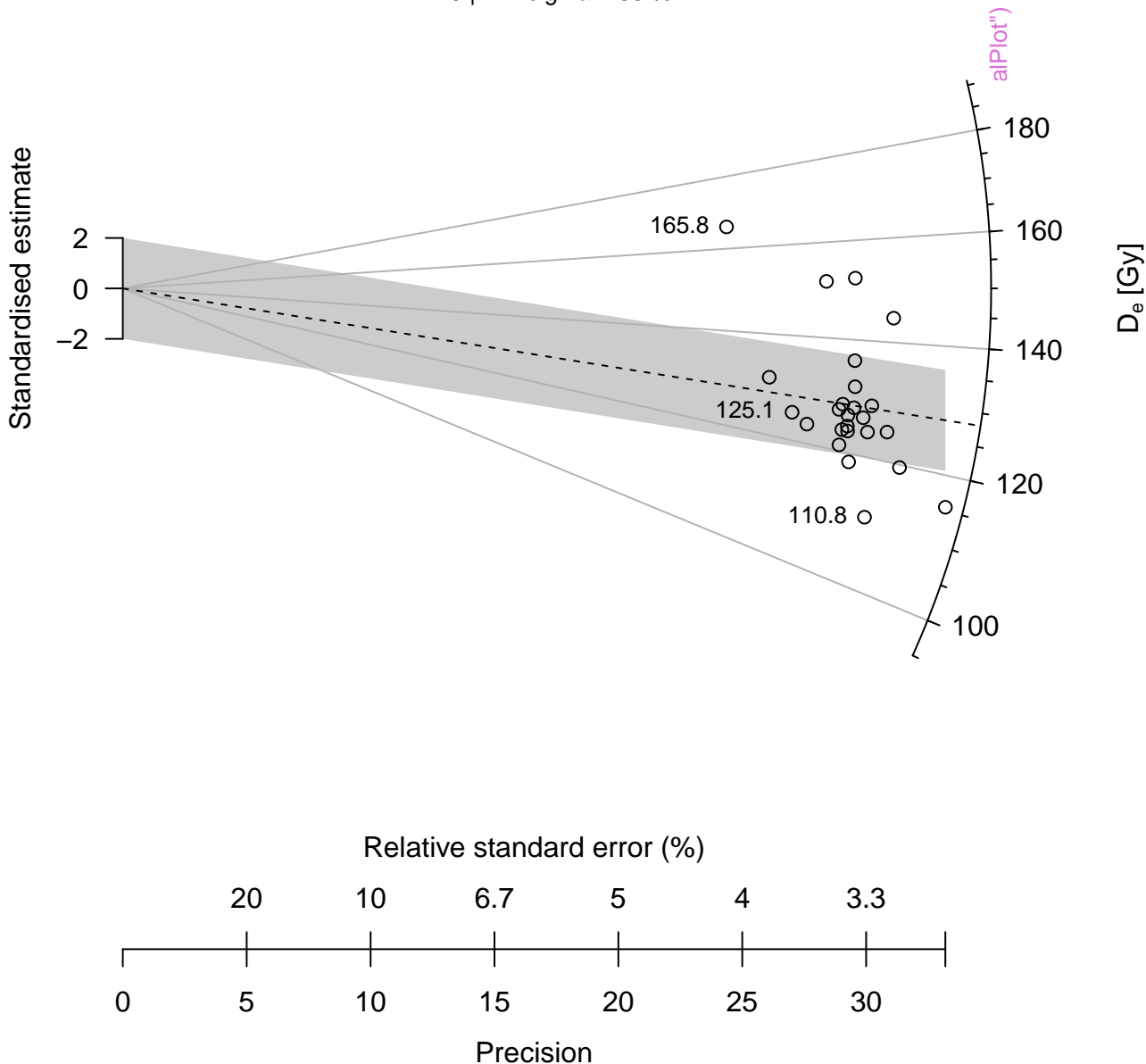
D_e distribution

n = 25 | in 2 sigma = 68 %



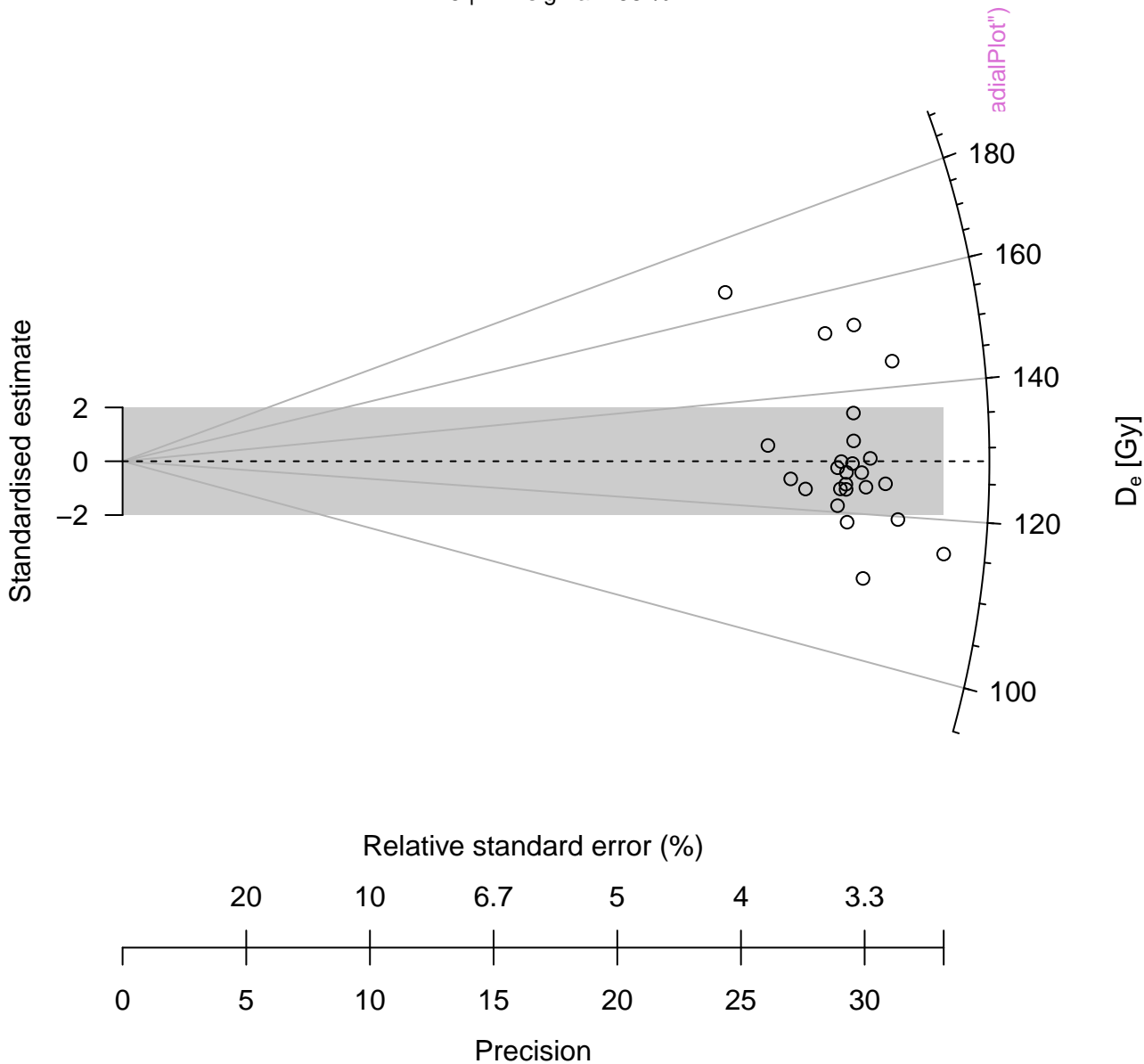
D_e distribution

n = 25 | in 2 sigma = 68 %



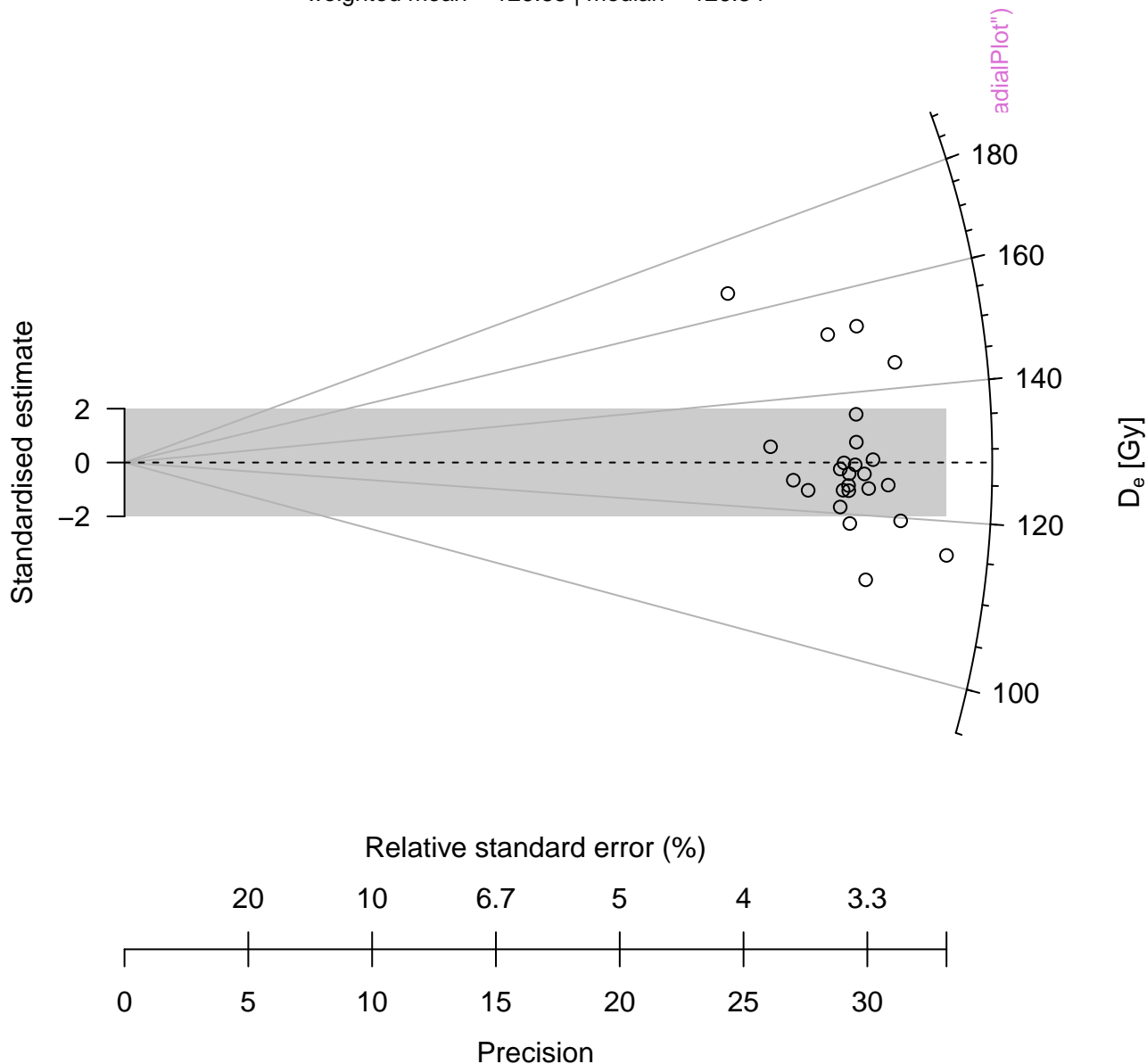
D_e distribution

n = 25 | in 2 sigma = 68 %



D_e distribution

weighted mean = 126.85 | median = 126.34



D_e distribution

n = 15 | in 2 sigma = 53.3 %

n = 10 | in 2 sigma = 90 %



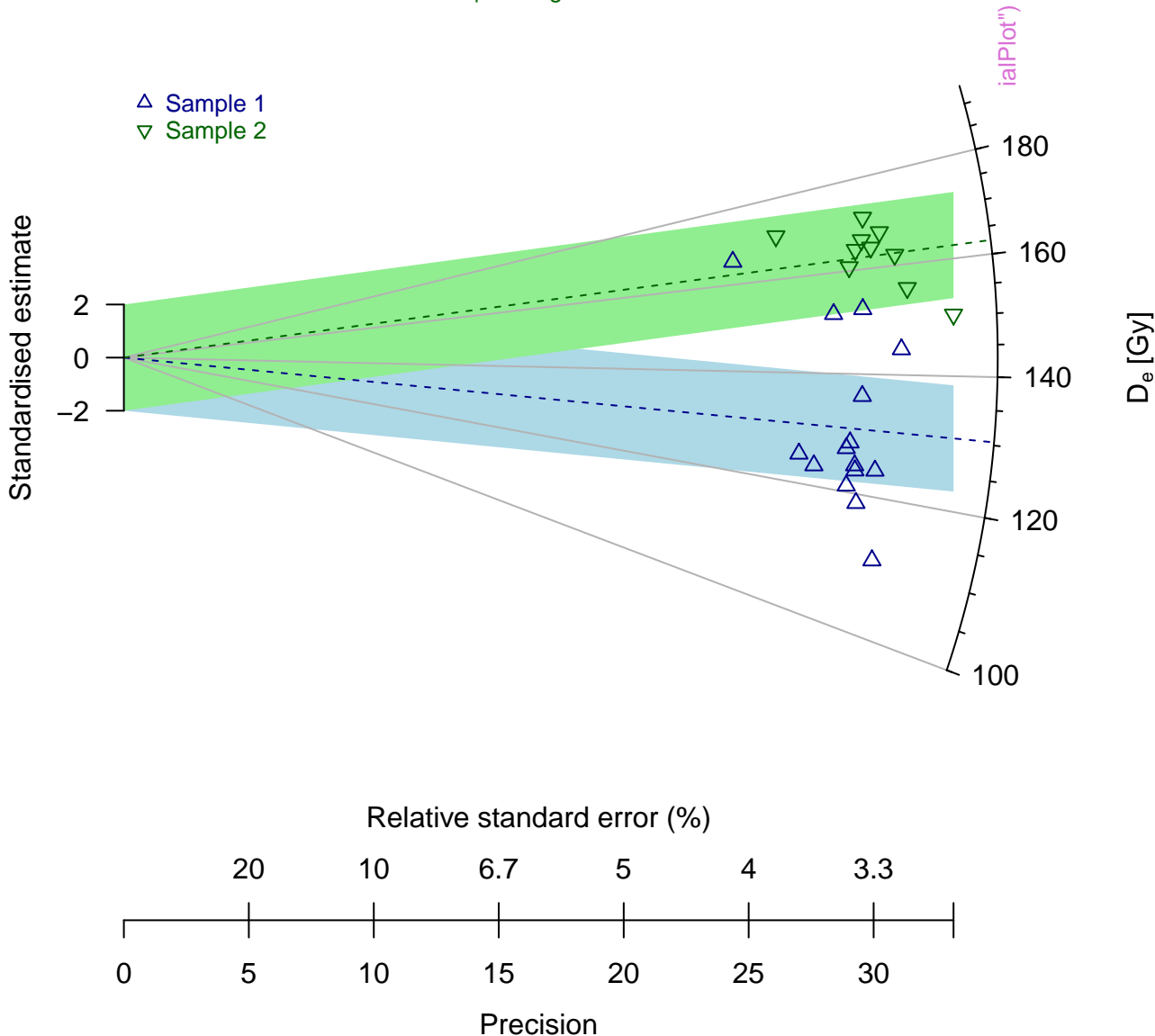
D_e distribution

n = 15 | in 2 sigma = 53.3 %

n = 10 | in 2 sigma = 90 %

△ Sample 1

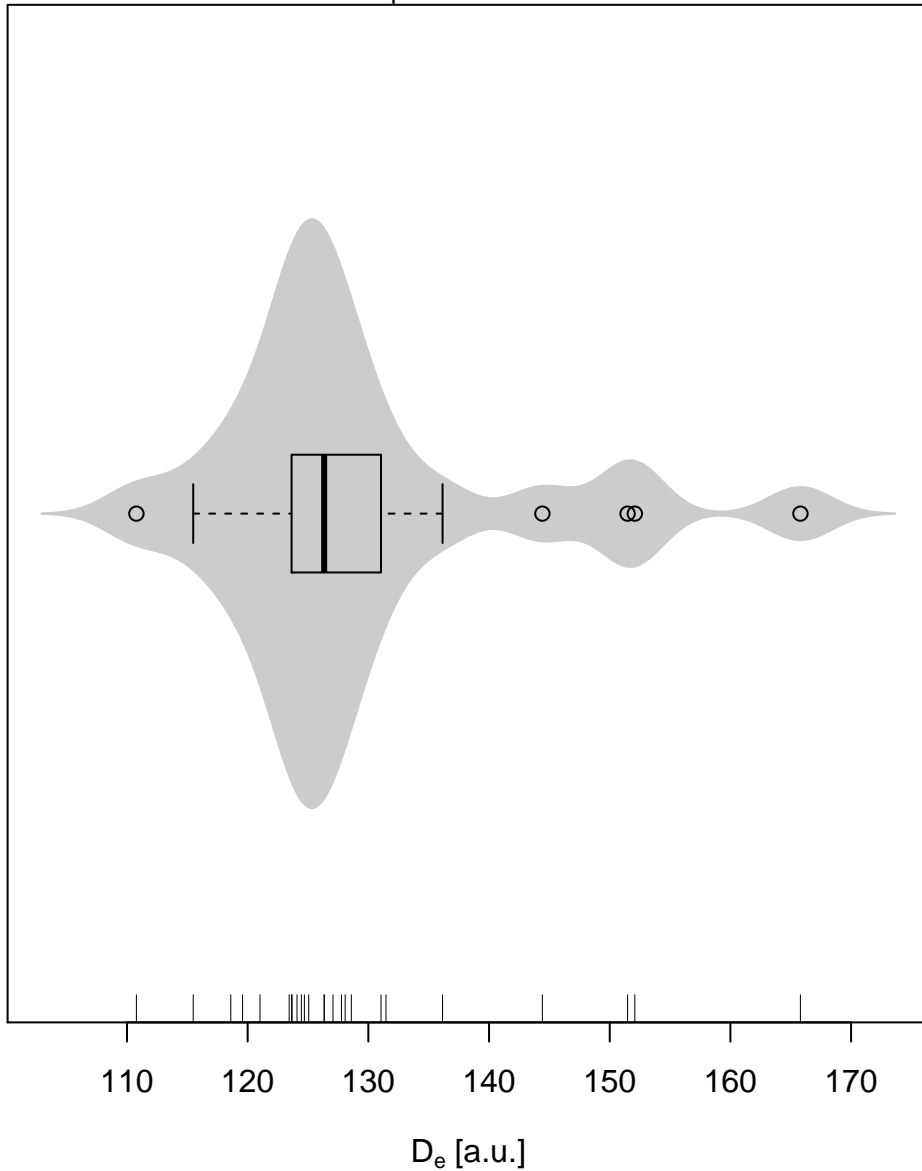
▽ Sample 2



Violin Plot

n = 25 | median = 126.34

Density



[help\("plot_ViolinPlot"\)](#)

USER combined



IRSL combined



`help("read_PSL2R")`

OSL combined

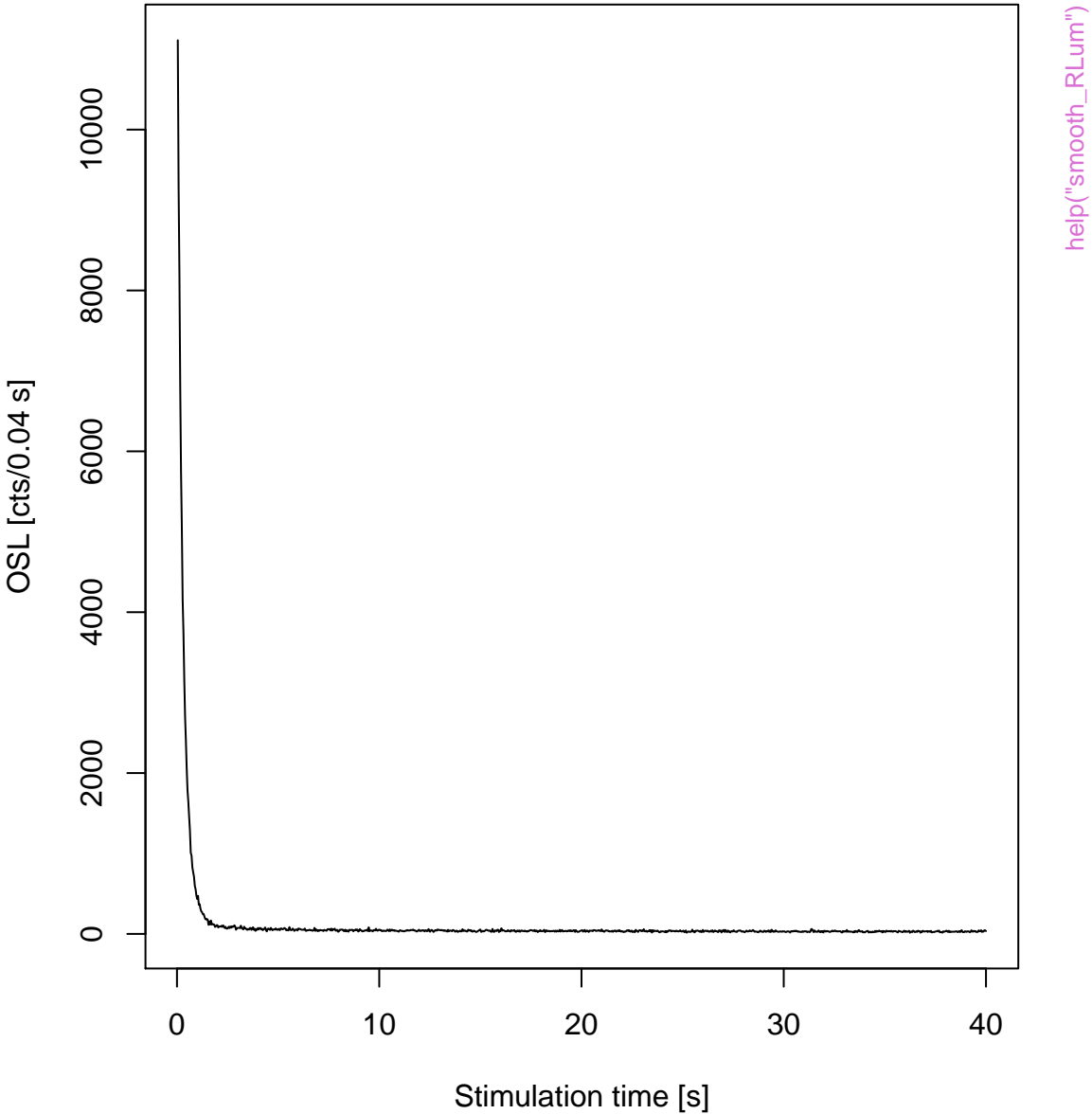




OSL



OSL



OSL



D_e distribution

n = 62 | mean = 66.01



D_e distribution

n = 62 | mean = 66.01

