

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

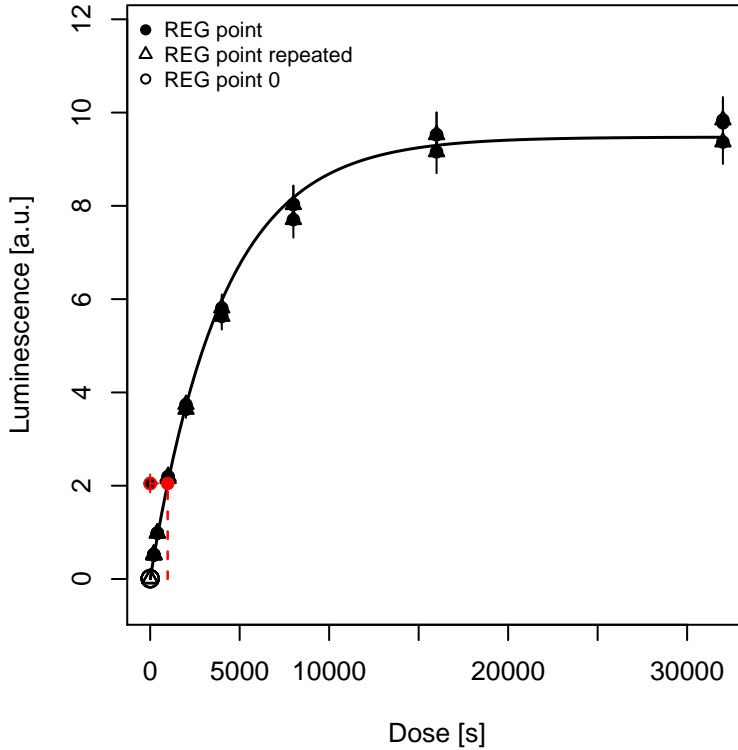


Density: g-values (%/decade)



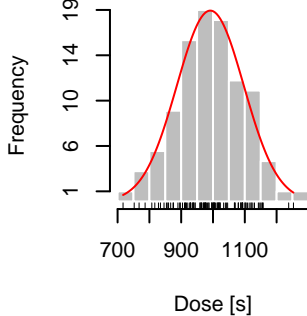
Growth curve

$D_e = 977.38 \pm 105.34$ | fit: EXP

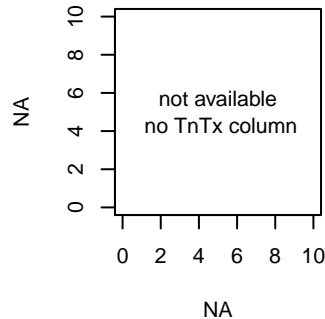


D_e from MC simulation

$D_{eMC} = 991.55 \pm 105.34$ | quality = 98.6 %



Test dose response





`help("ExampleData.FittingLM")`



`help("ExampleData.LxTxData")`



help("ExampleData.LxTxOSLData")



`help("ExampleData.LxTxOSLData")`

RF

#1



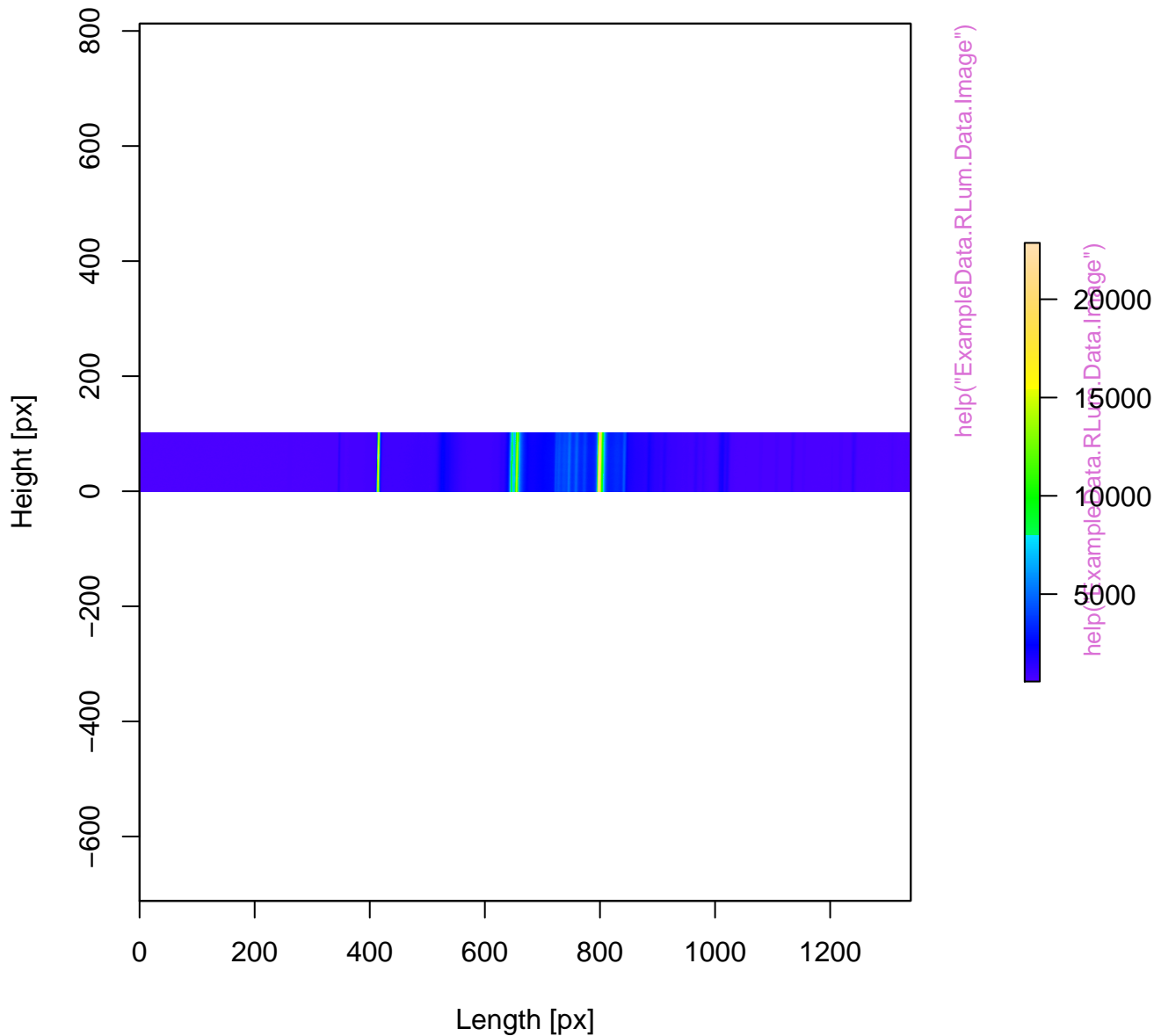
RF

#2



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

RLum.Data.Image





help("ExampleData.SurfaceExposure")



help("ExampleData.SurfaceExposure")

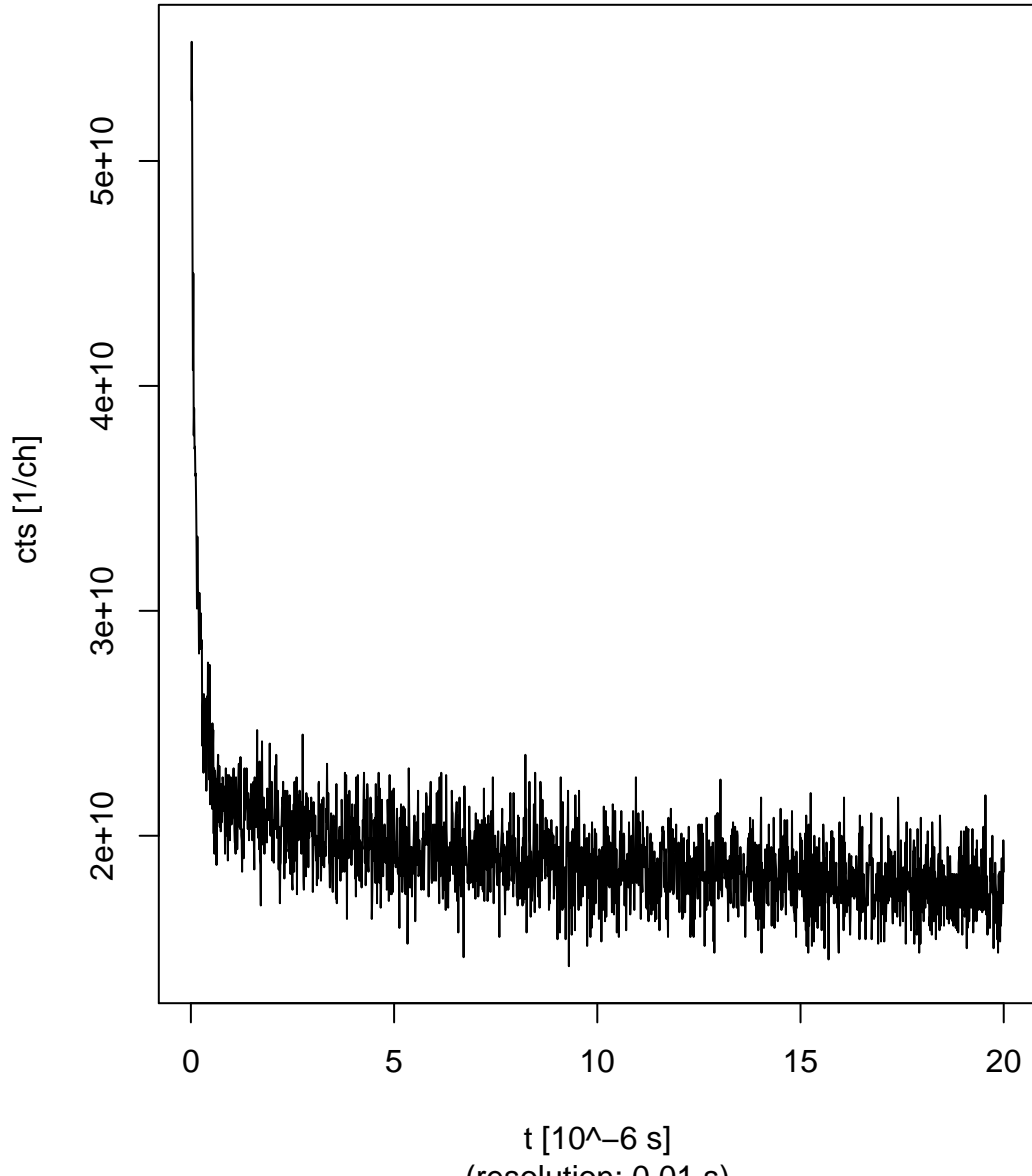


help("ExampleData.SurfaceExposure")



help("ExampleData.SurfaceExposure")

POSL (UVVIS)



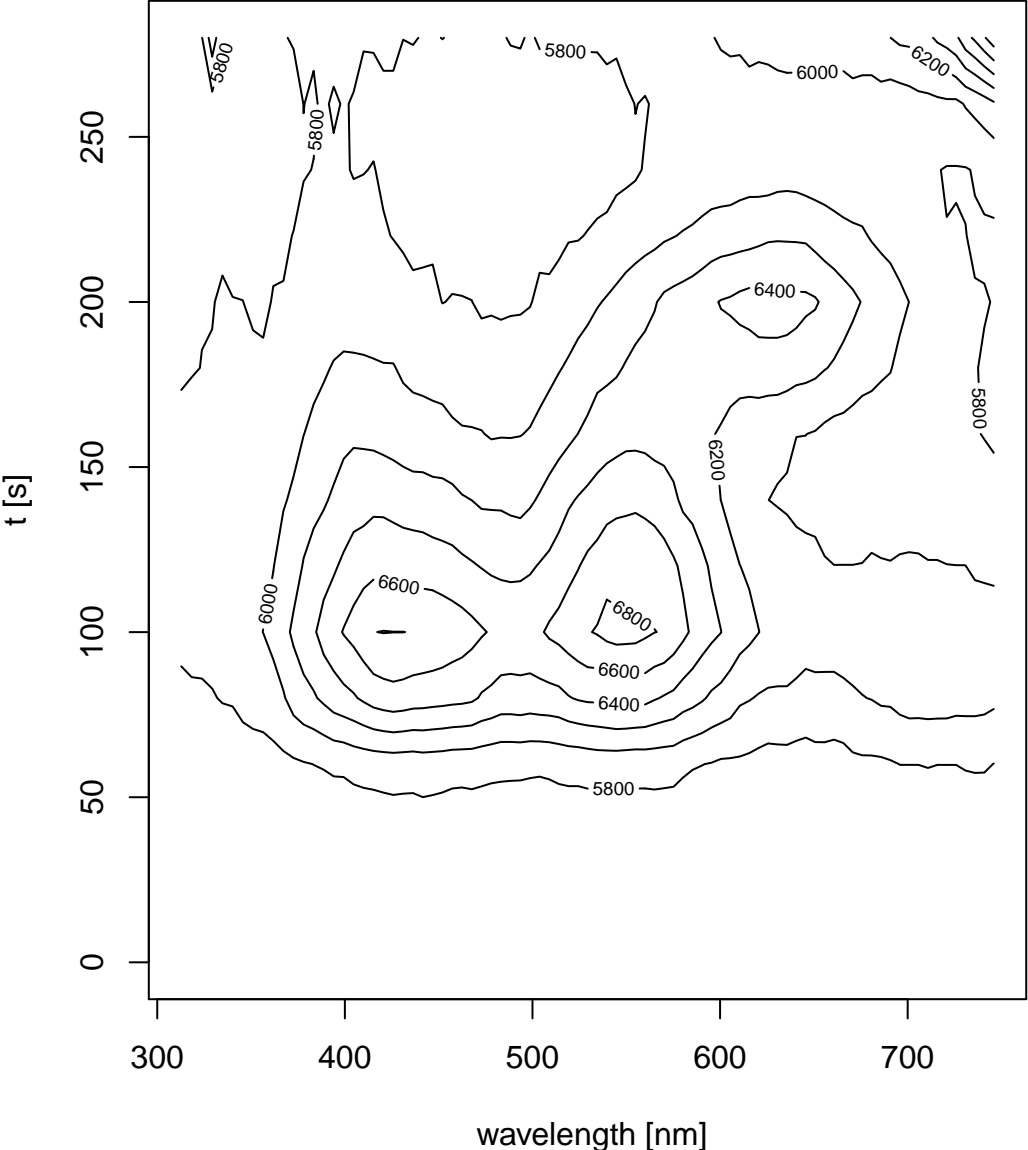
help("ExampleData.TR_OSL")

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: 2



IRSL

Record: 2

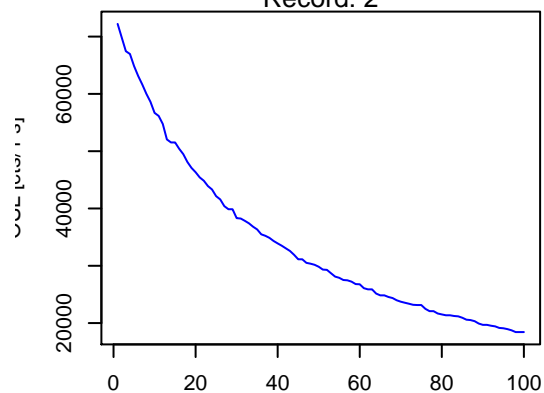


help("ExampleData.portableOSL")

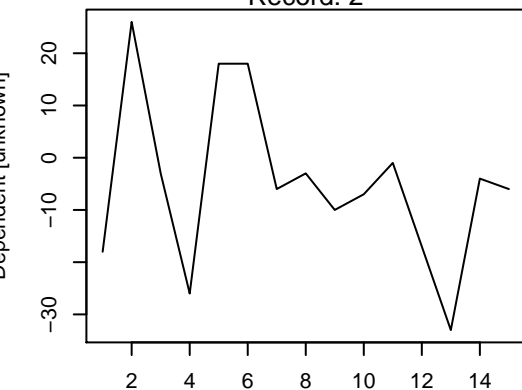
Record: 2



Record: 2



Record: 2





help("ExampleData.portableOSL")

USER

Record: 4



IRSL

Record: 4



help("ExampleData.portableOSL")

Record: 4



Record: 4





USER

Record: 6



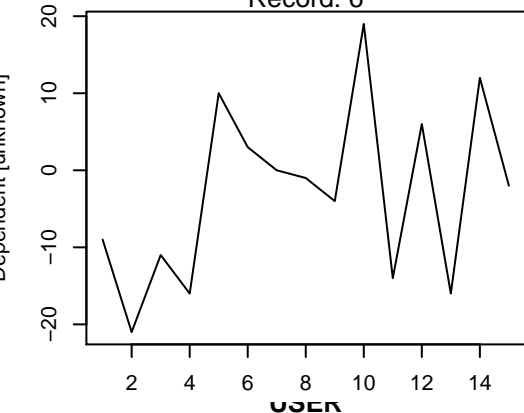
IRSL

Record: 6

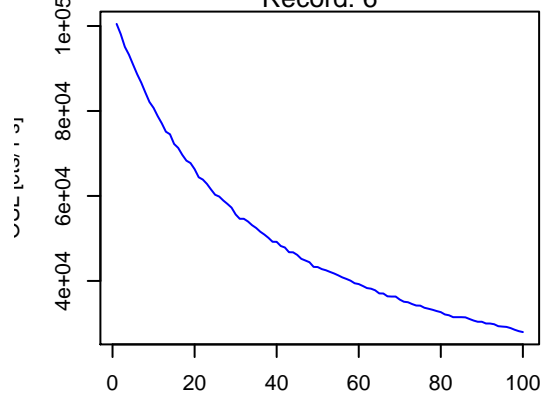


help("ExampleData.portableOSL")

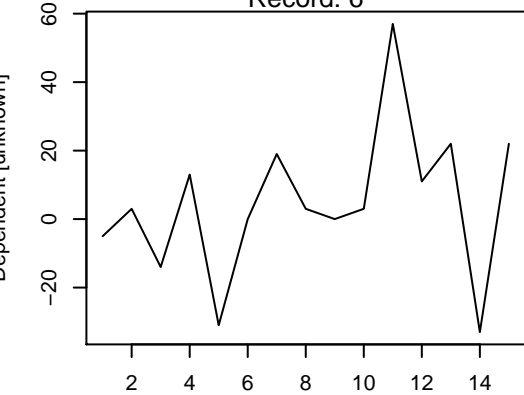
Record: 6



Record: 6



Record: 6



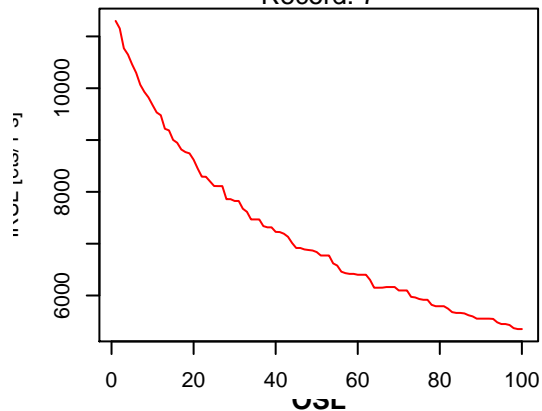
USER

Record: 7



IRSL

Record: 7

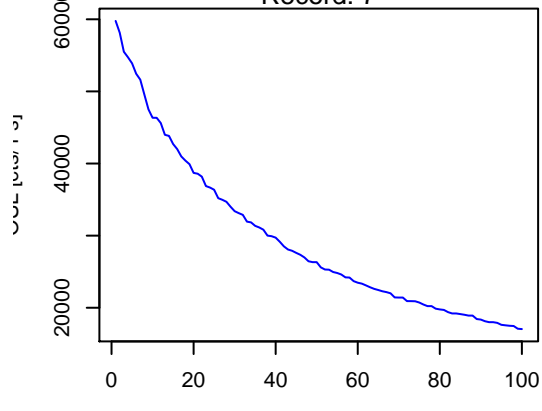


help("ExampleData.portableOSL")

Record: 7



Record: 7





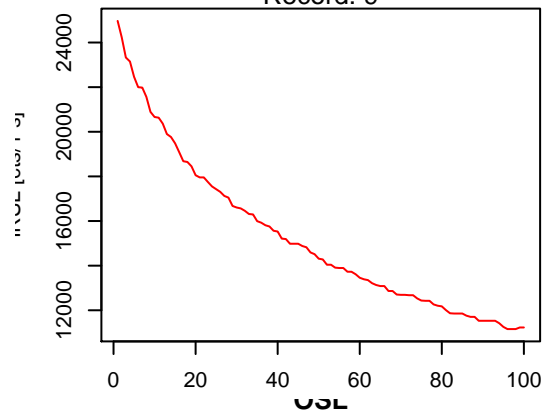
USER

Record: 9



IRSL

Record: 9

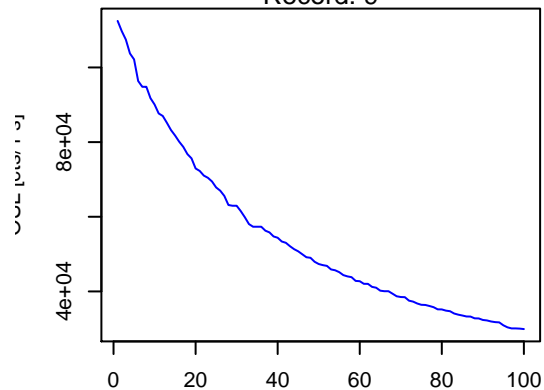


help("ExampleData.portableOSL")

Record: 9



Record: 9



USER

Record: 10



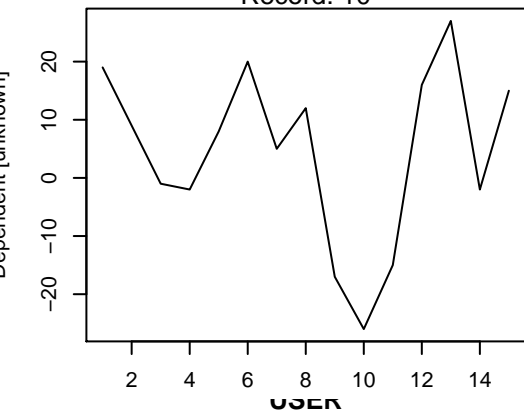
IRSL

Record: 10

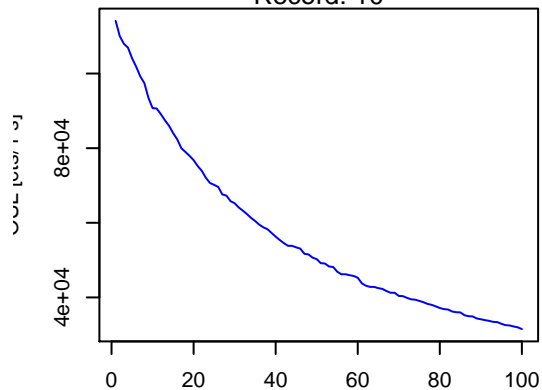


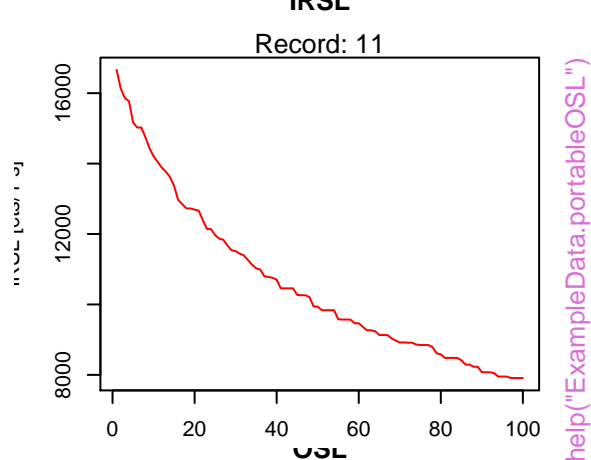
help("ExampleData.portableOSL")

Record: 10



Record: 10





USER

Record: 12



IRSL

Record: 12



help("ExampleData.portableOSL")

Record: 12



Record: 12

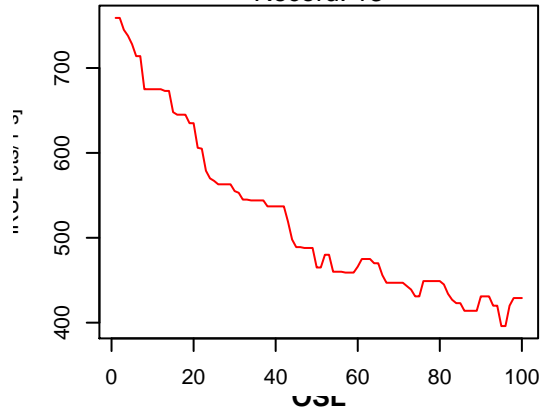


USER

Record: 13

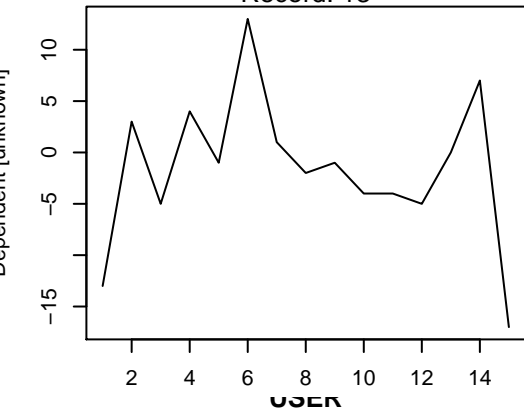


Record: 13

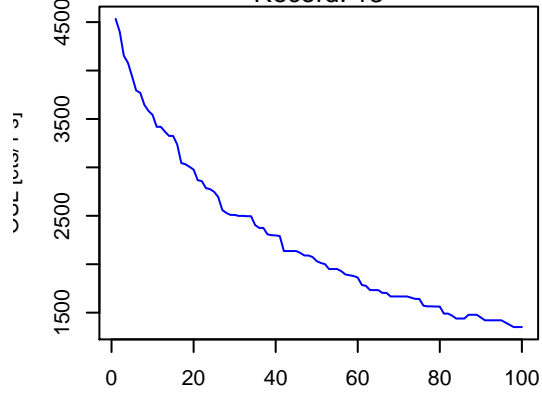


help("ExampleData.portableOSL")

Record: 13



Record: 13



USER

Record: 14



IRSL

Record: 14



help("ExampleData.portableOSL")

Record: 14



Record: 14



USER

Record: 1



IRSL

Record: 1

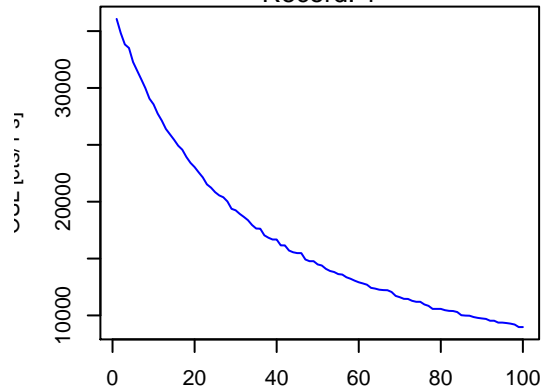


help("PSL2Riseo.BinfileData")

Record: 1



Record: 1



USER

Record: 2



IRSL

Record: 2



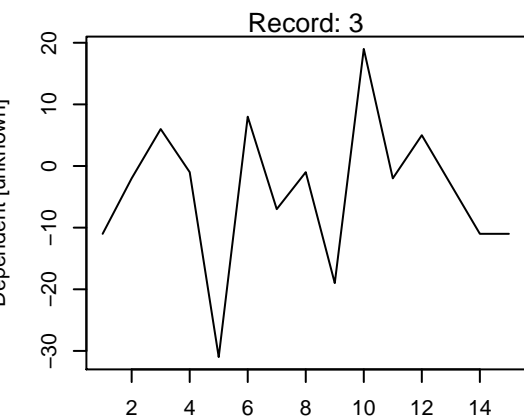
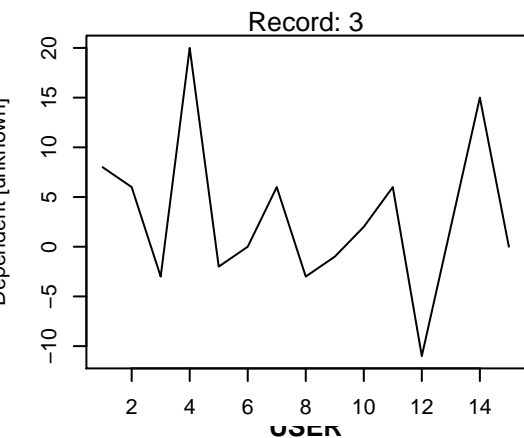
help("PSL2Riseo.BinfileData")

Record: 2



Record: 2



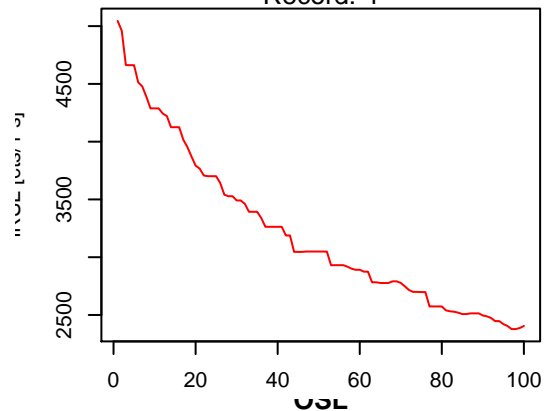


USER

Record: 4

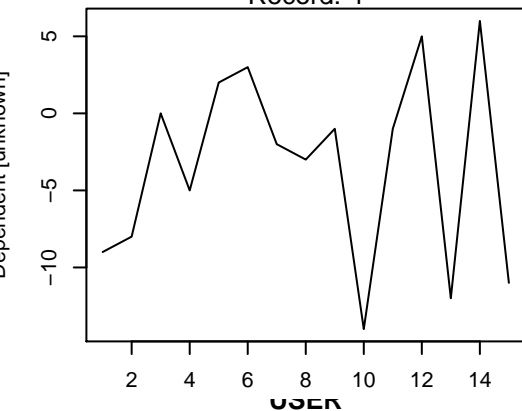


Record: 4

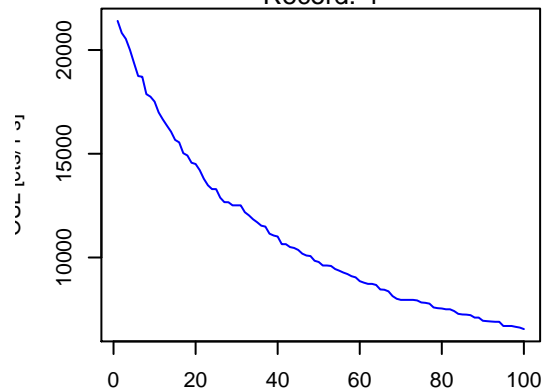


help("PSL2Risee.BINfileData")

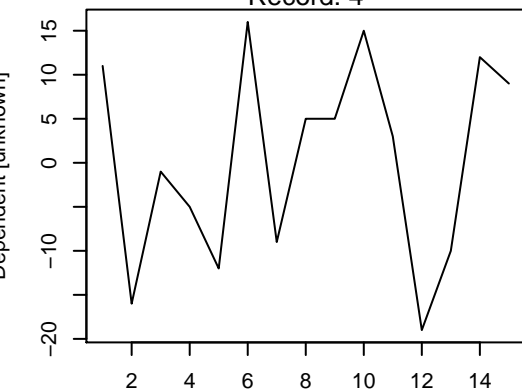
Record: 4



Record: 4



Record: 4







USER

Record: 7



IRSL

Record: 7



help("PSL2Riseo.BINfileData")

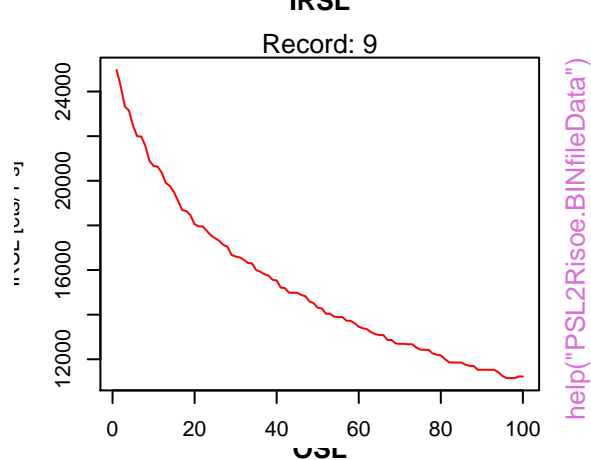
Record: 7

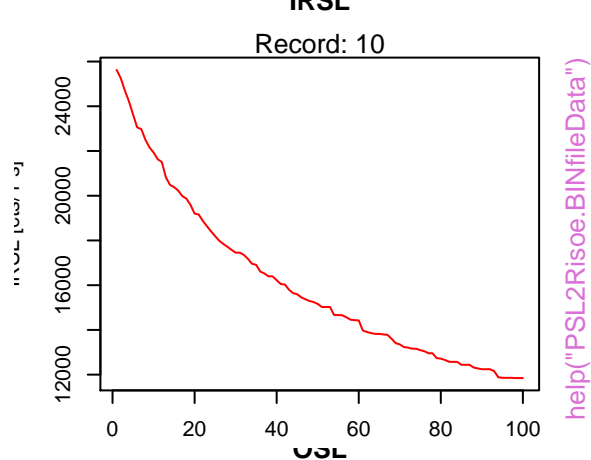


Record: 7









USER

Record: 11



IRSL

Record: 11



help("PSL2Riseo.BinfileData")

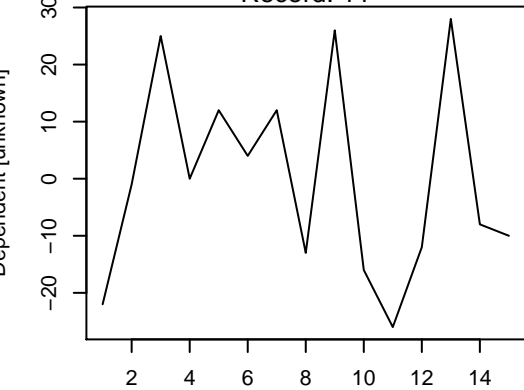
Record: 11



Record: 11



Record: 11



USER

Record: 12



IRSL

Record: 12



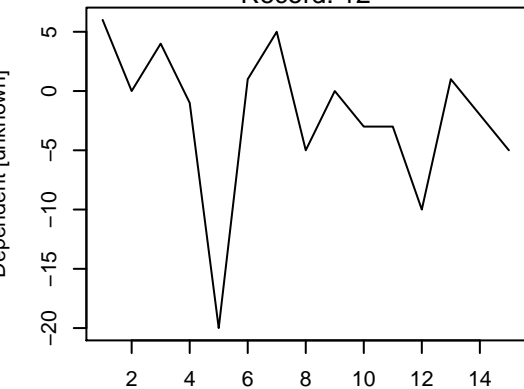
Record: 12



Record: 12



Record: 12

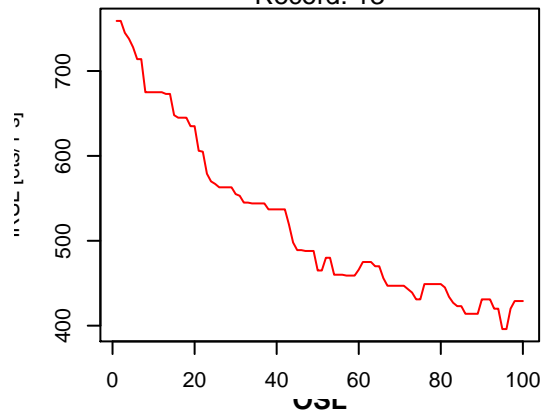


USER

Record: 13



Record: 13

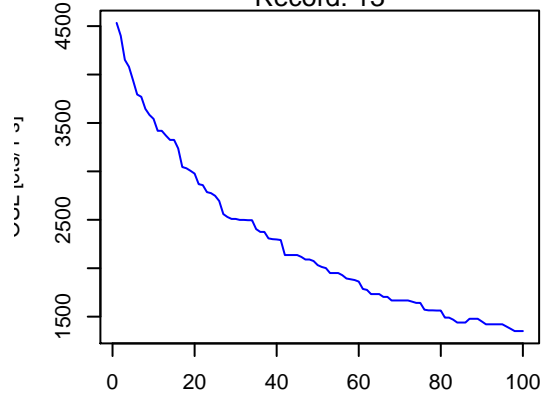


help("PSL2Riseo.BinfileData")

Record: 13



Record: 13



USER



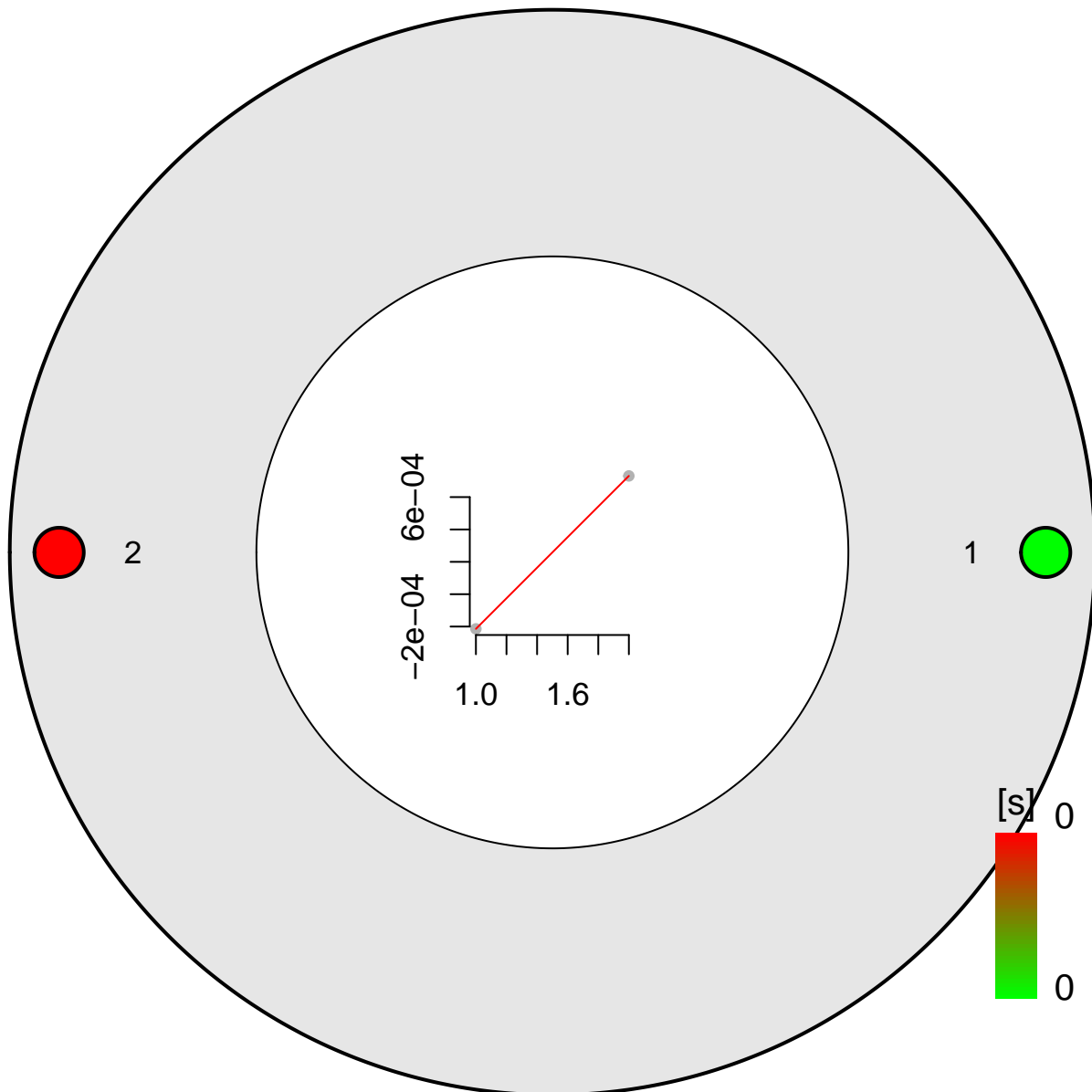
IRSL



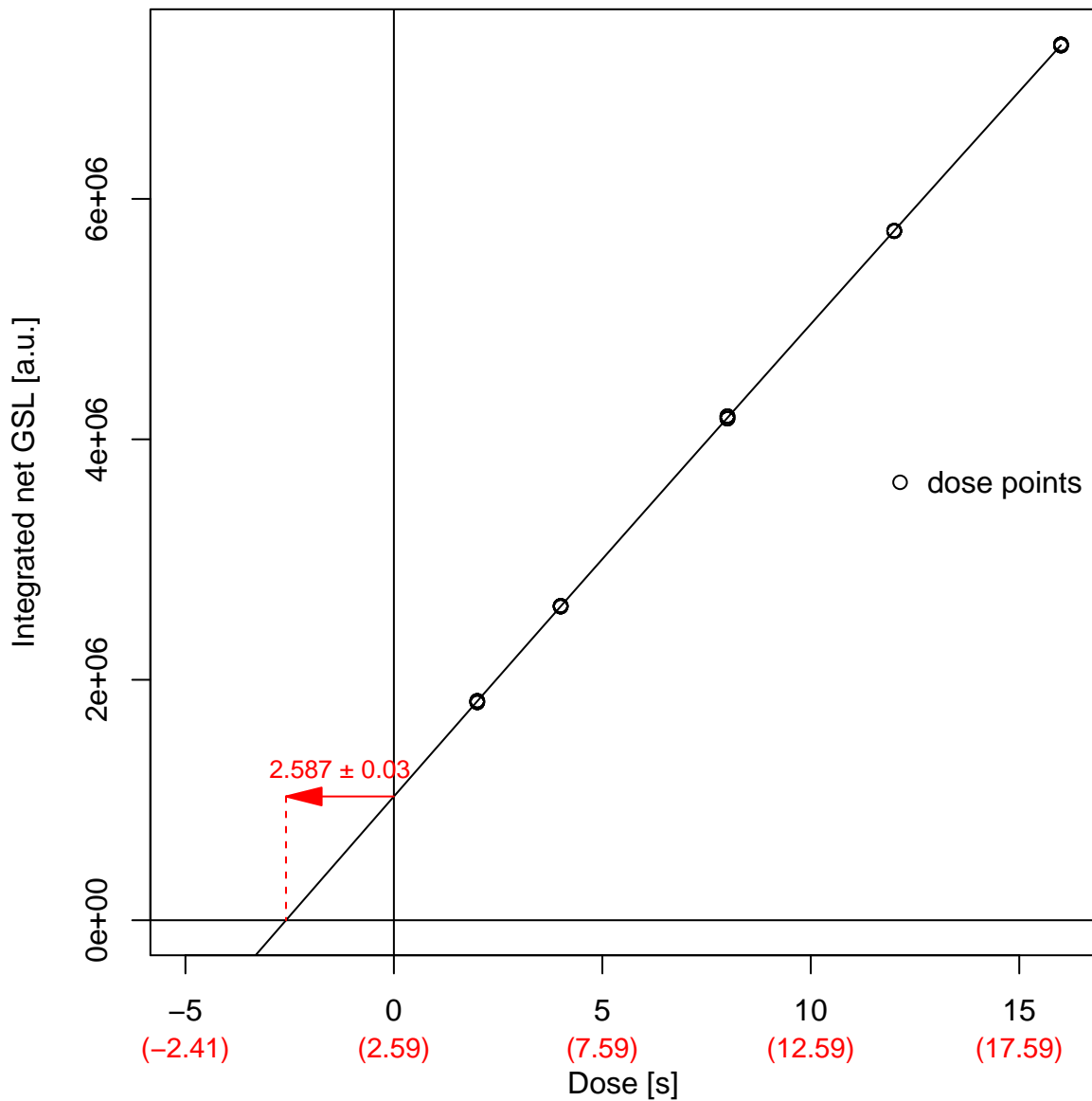
help("PSL2Riseo.BINfileData")



Sample Carousel Crosstalk

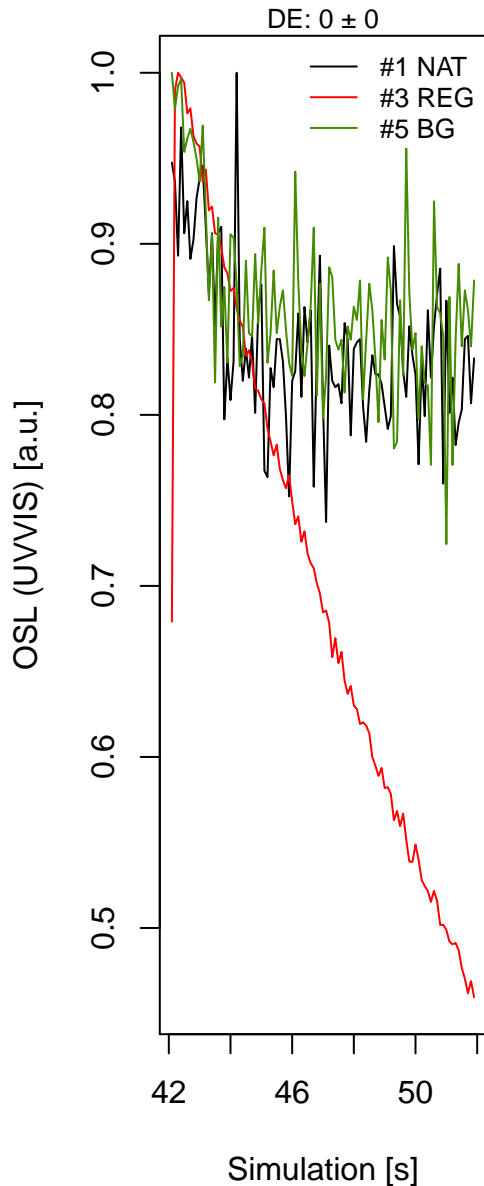


Irradiation Time Correction

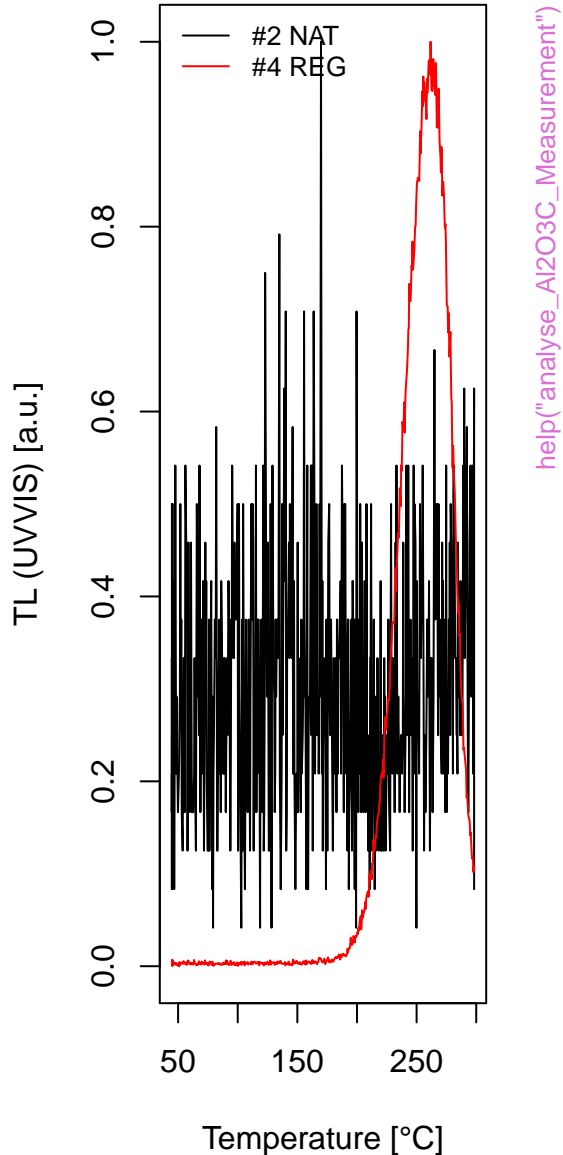


help("analyse_Al2O3C_ITC")

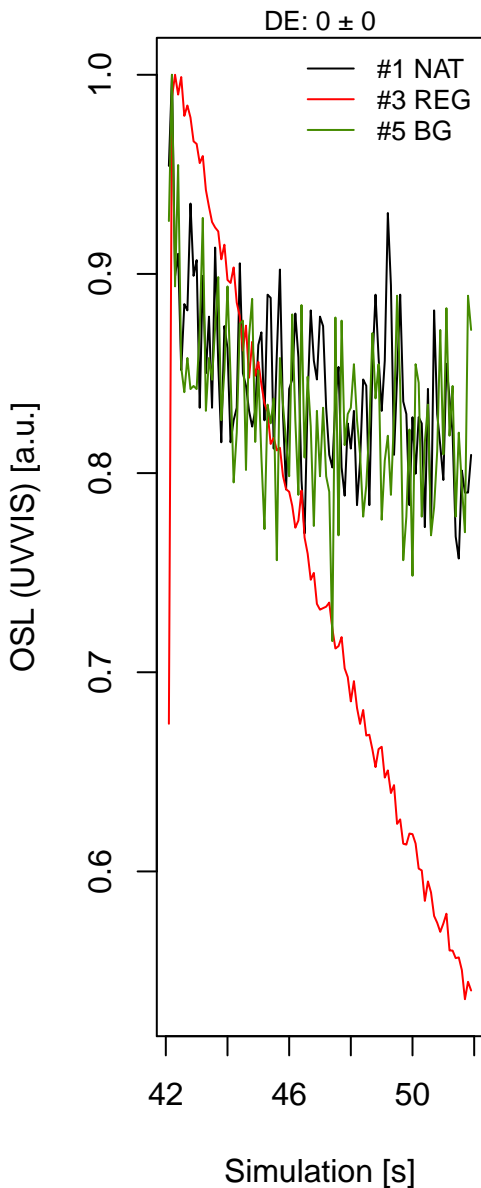
ALQ POS: 1 | OSL



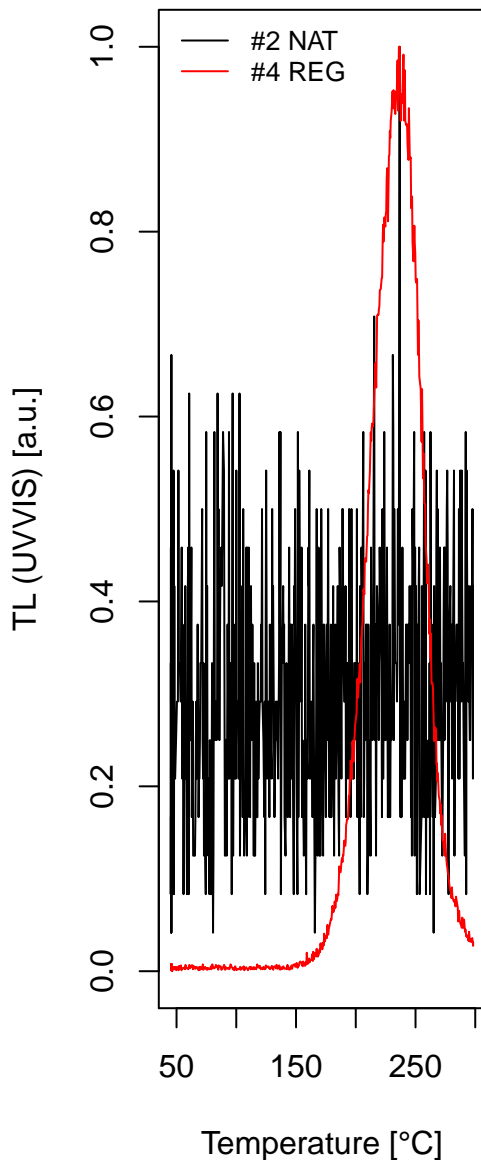
ALQ POS: 1 | T#1



ALQ POS: 2 | OSL



ALQ POS: 2 | T#2



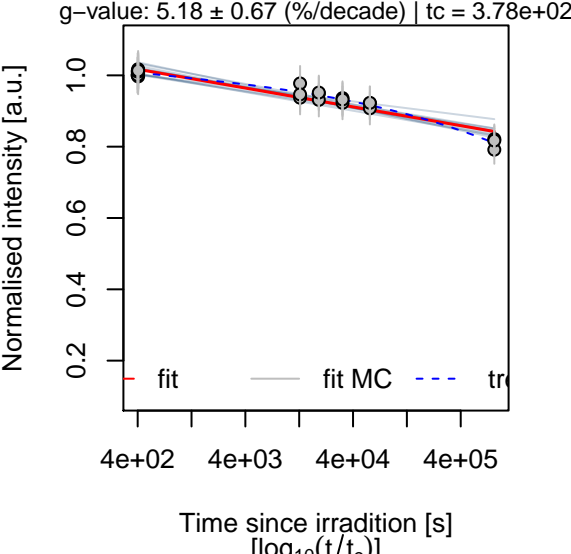
help("analyse_Al2O3C_Measurement")

No L_x curves detected

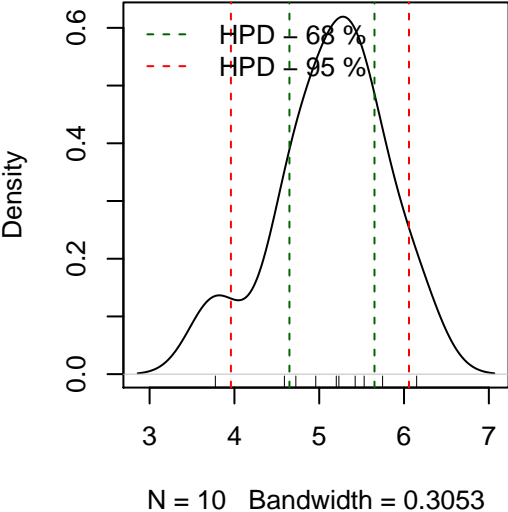
No T_x curves detected

help("analyse_FadingMeasurement")

Signal Fading

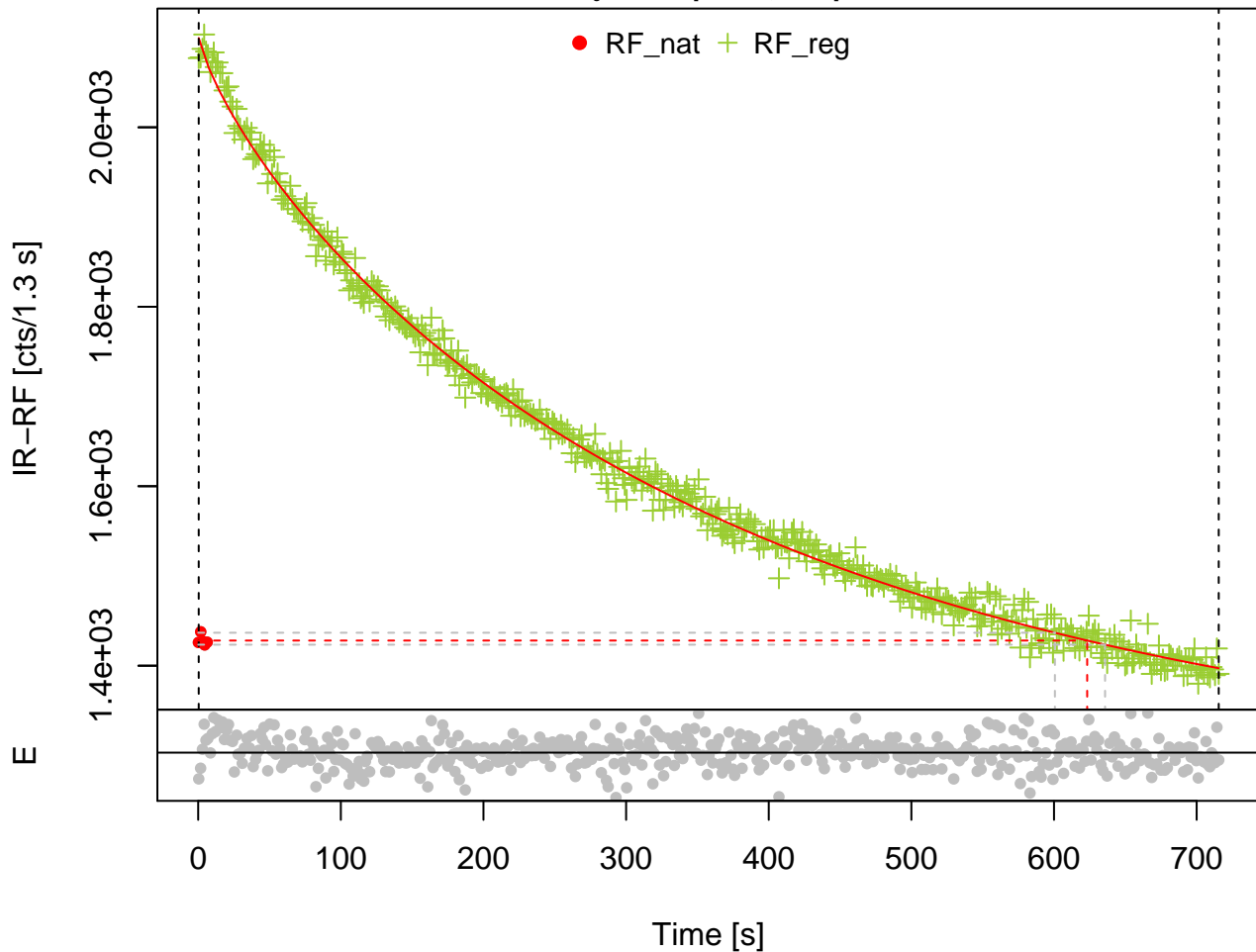


Density: g-values (%/decade)



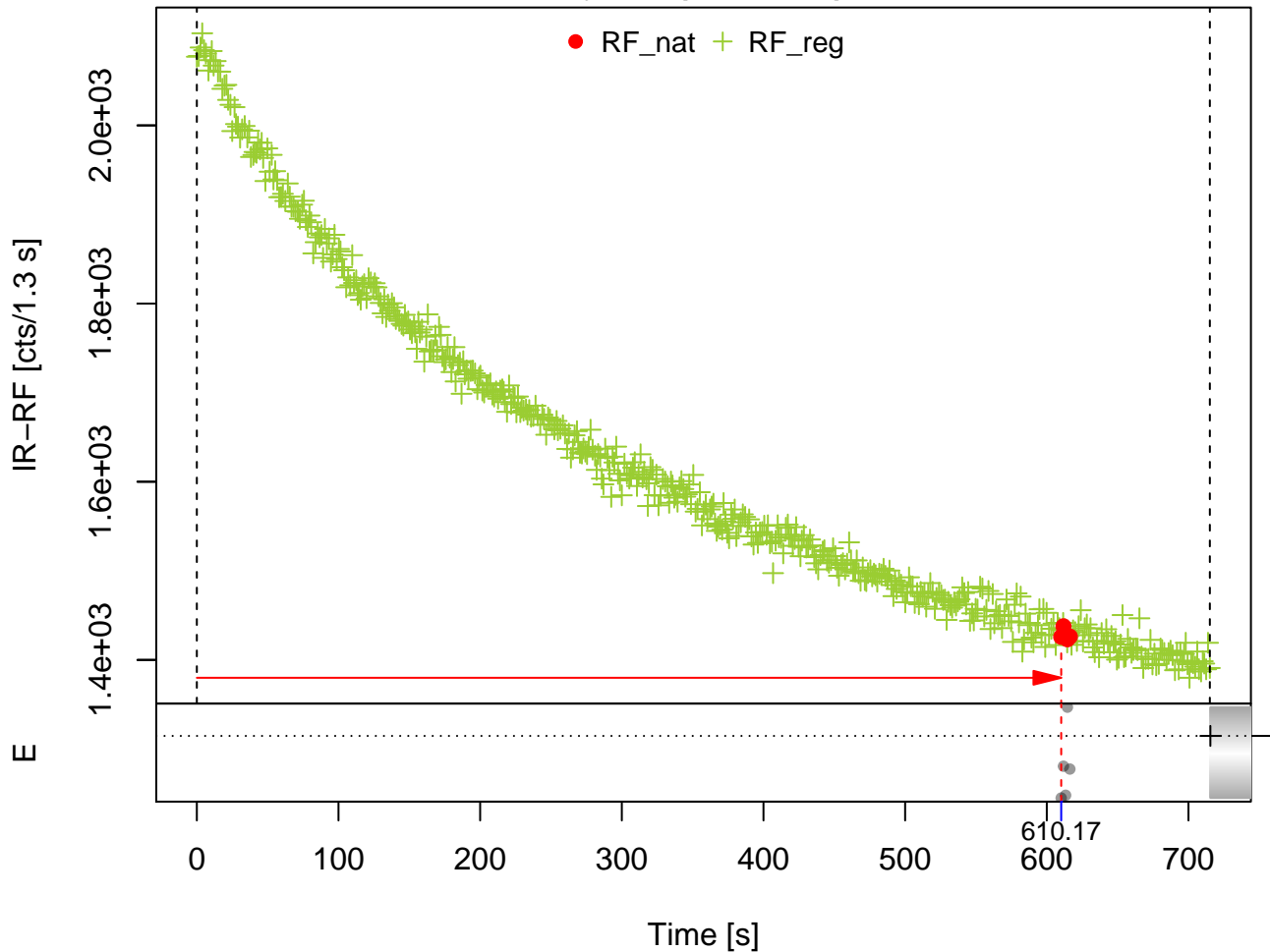
IR-RF

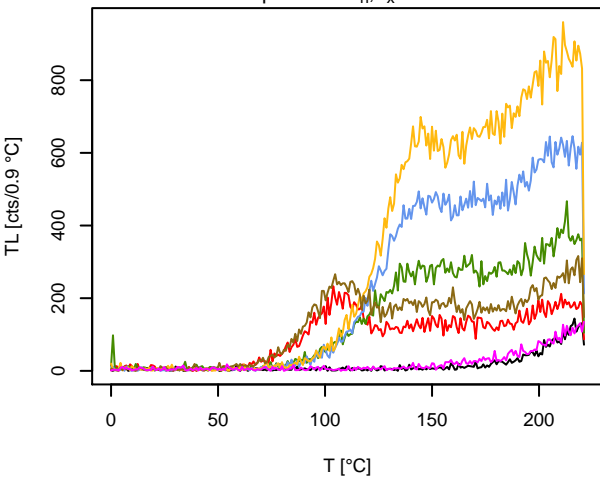
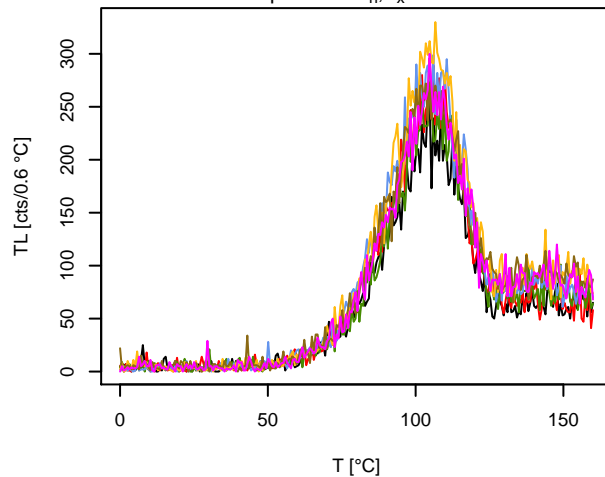
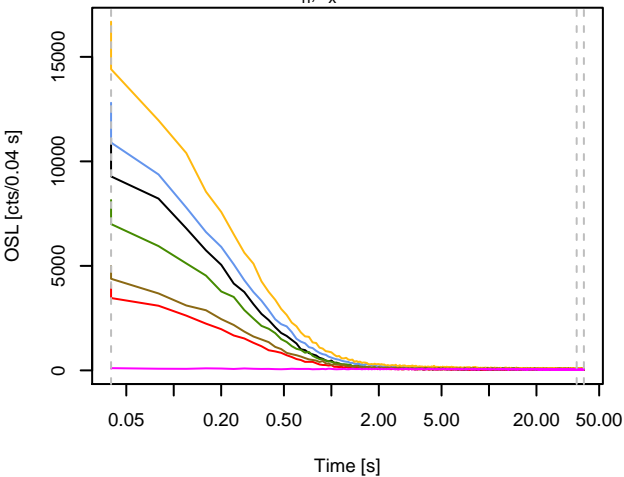
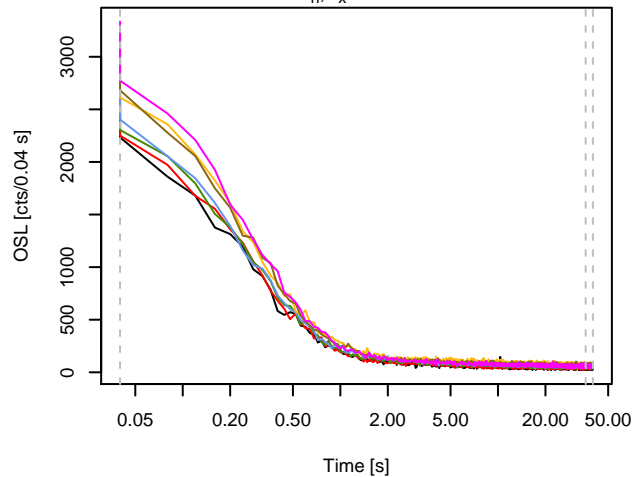
$D_e = 623.25$ [600.63 ; 635.8]



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)

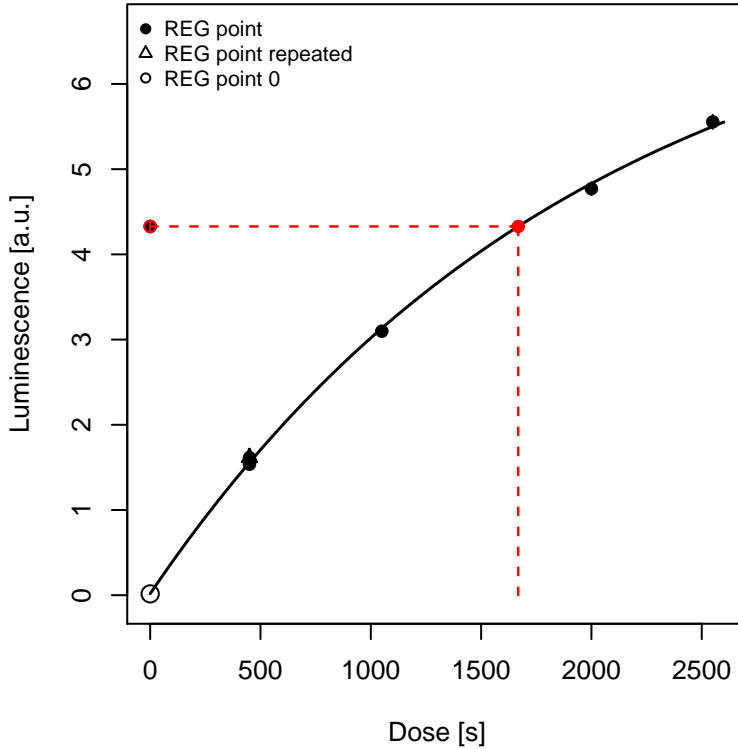
●
R4
(2550)

●
R5
(450)

●
R0
(0)

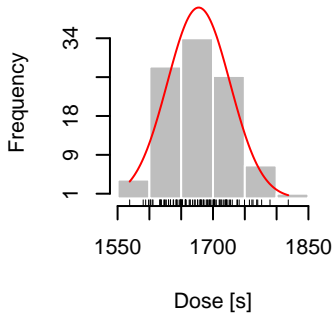
Growth curve

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

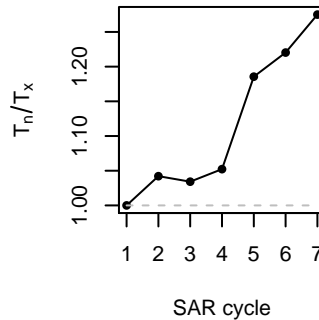


D_e from MC simulation

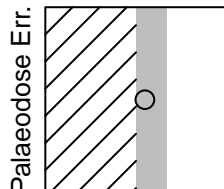
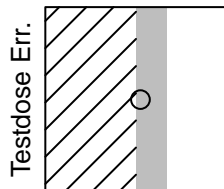
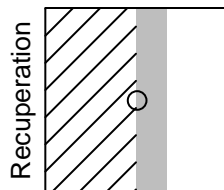
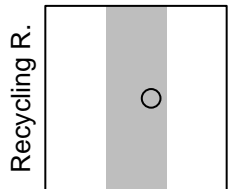
$D_{eMC} = 1677.48 \pm 49.22$ | quality = 99.4 %



Test dose response

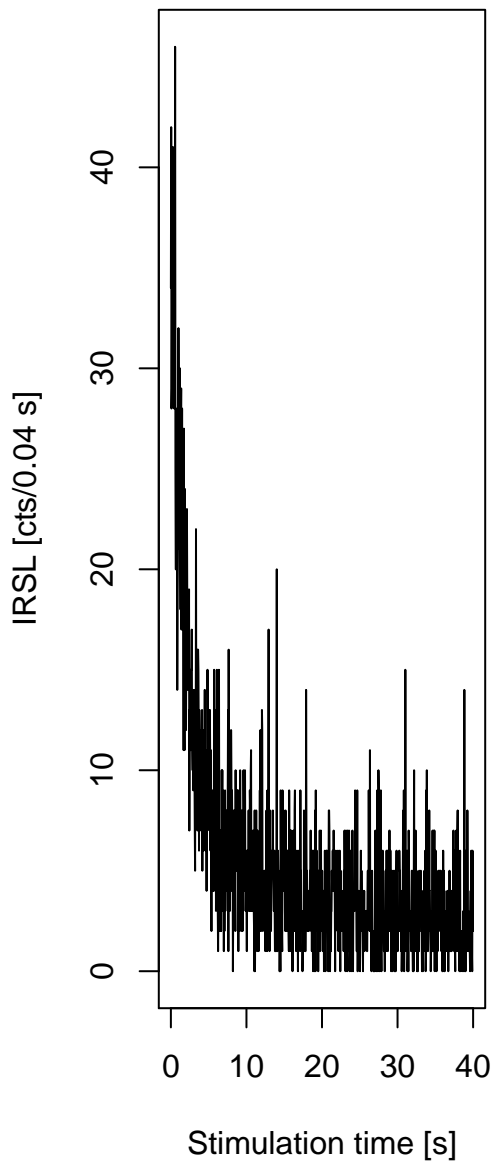


Rejection criteria



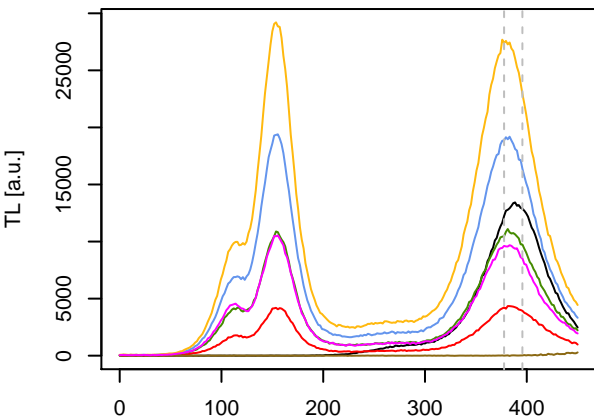
- 0.2 + 0.2

IRSL

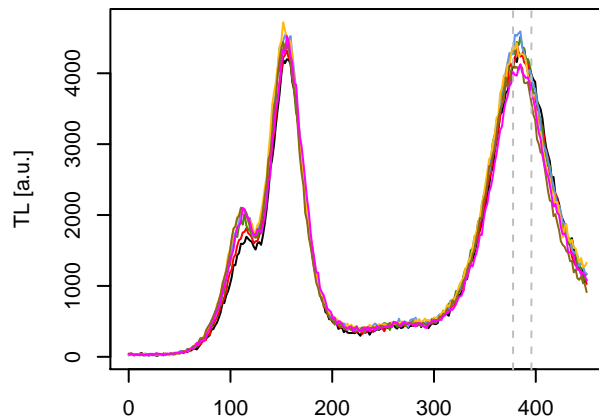


[help\("analyse_SAR.CWOSL"\)](#)

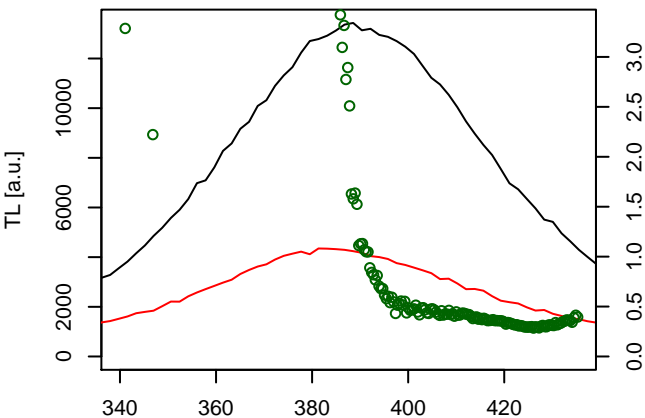
L_n, L_x curves



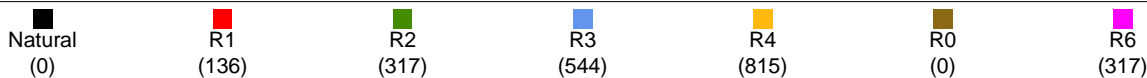
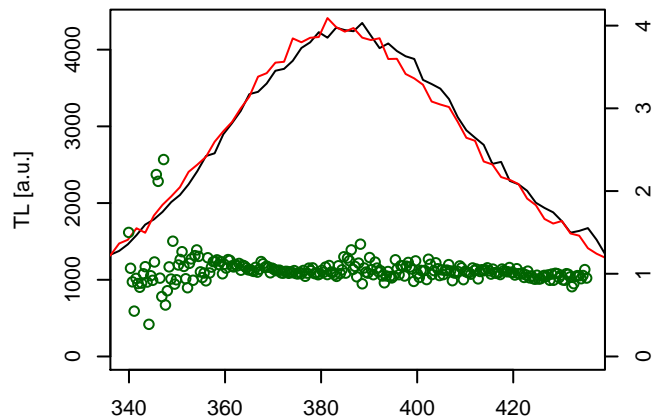
T_n, T_x curves



Plateau test L_n, L_x curves

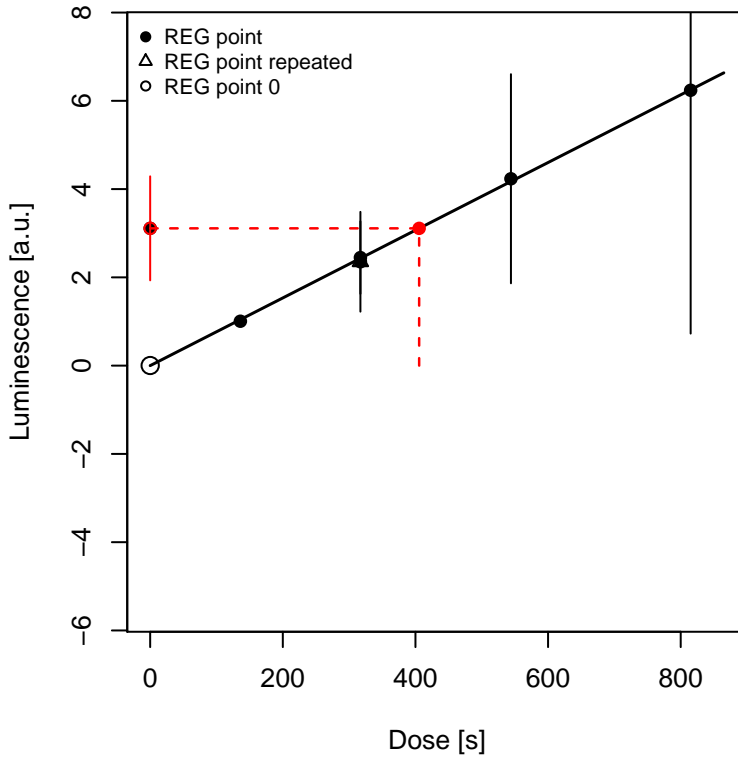


plateau Test T_n, T_x curves



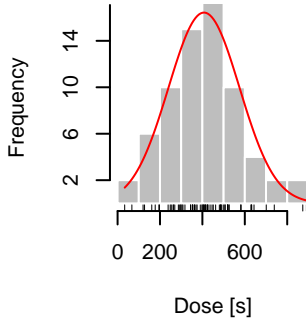
Growth curve

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

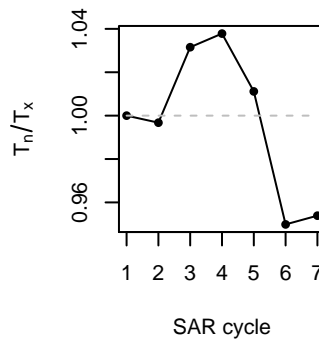


D_e from MC simulation

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



Test dose response

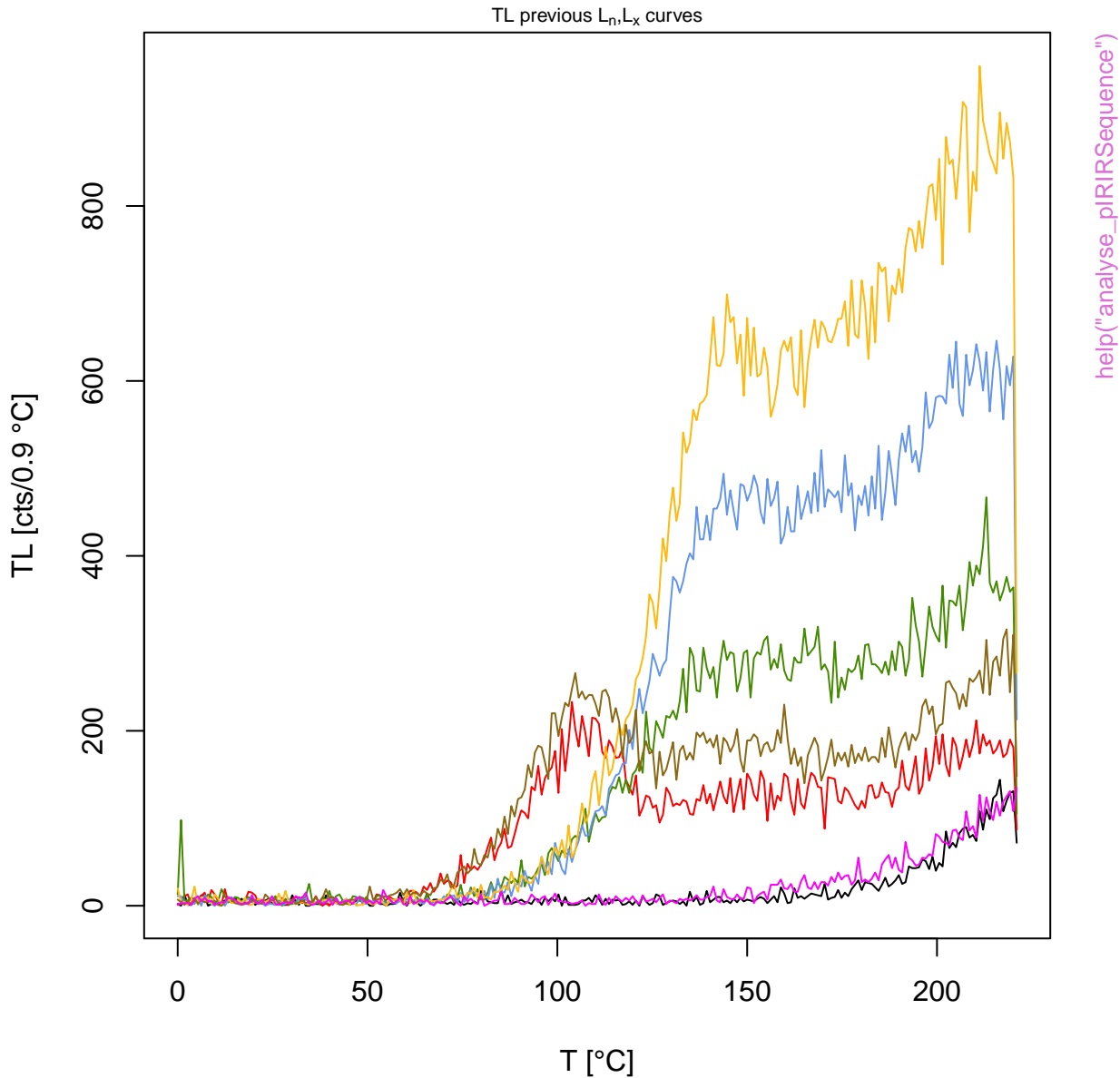


Pseudo pIRIR data set based on quartz OSL

TL
pseudolRSL1
pseudolRSL2

help("analyse_pIRIRSequence")

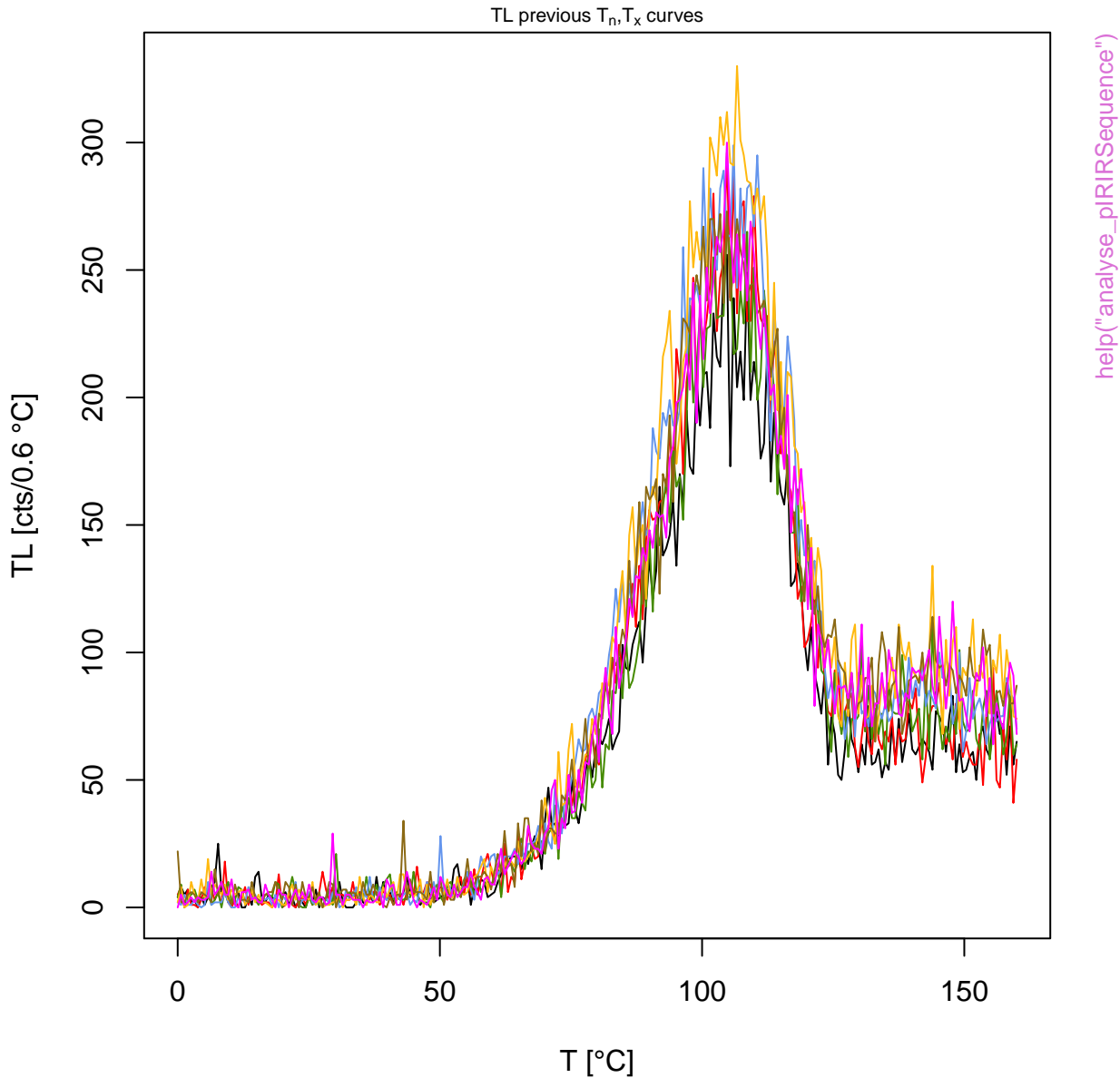
Pseudo pIRIR data set based on quartz OSL



Pseudo pIRIR data set based on quartz OSL



Pseudo pIRIR data set based on quartz OSL

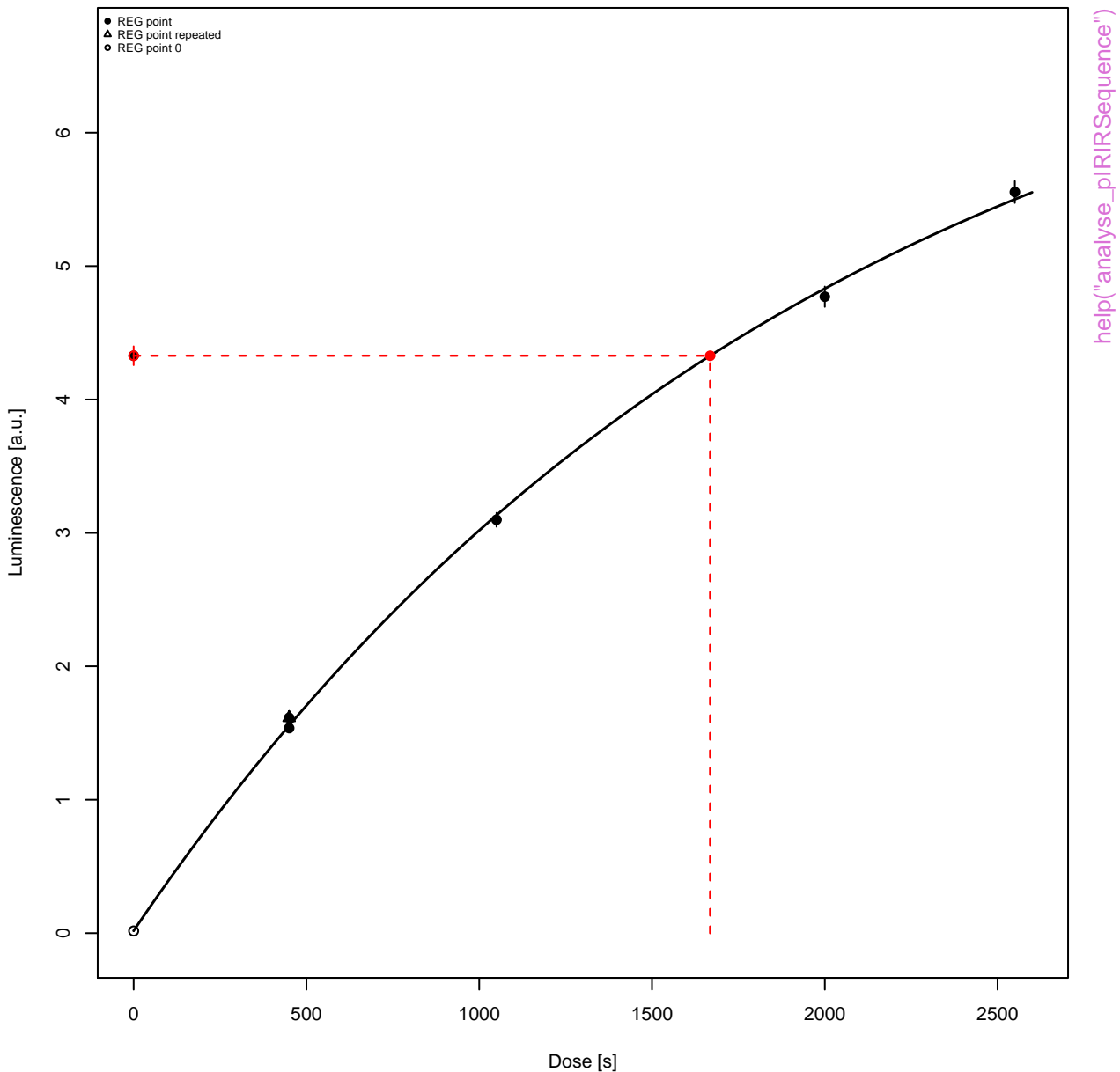


Pseudo pIRIR data set based on quartz OSL



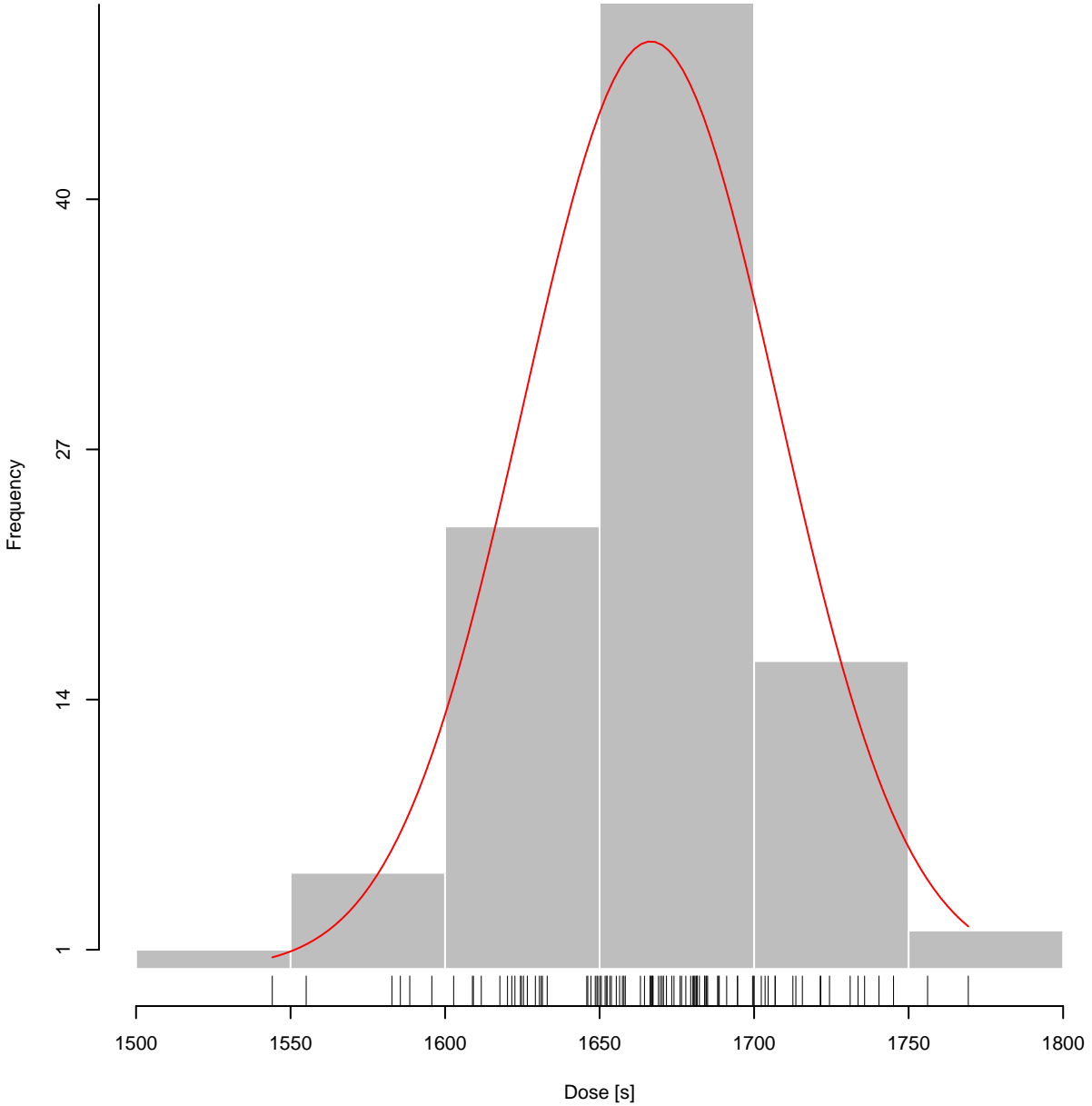
Pseudo pIRIR data set based on quartz OSL

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



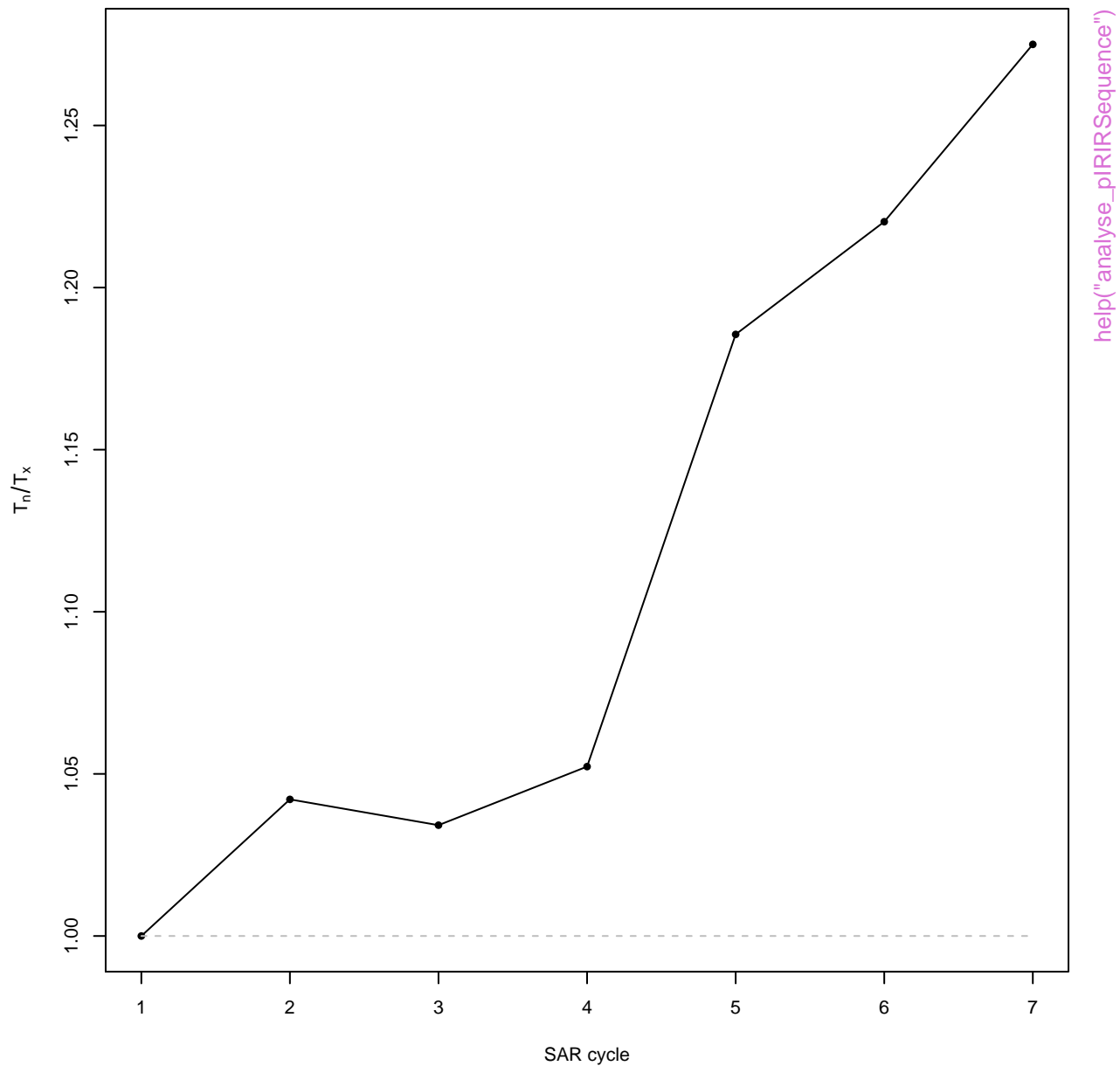
D_e from MC simulation

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



help("analyse_pIRIRSequence")

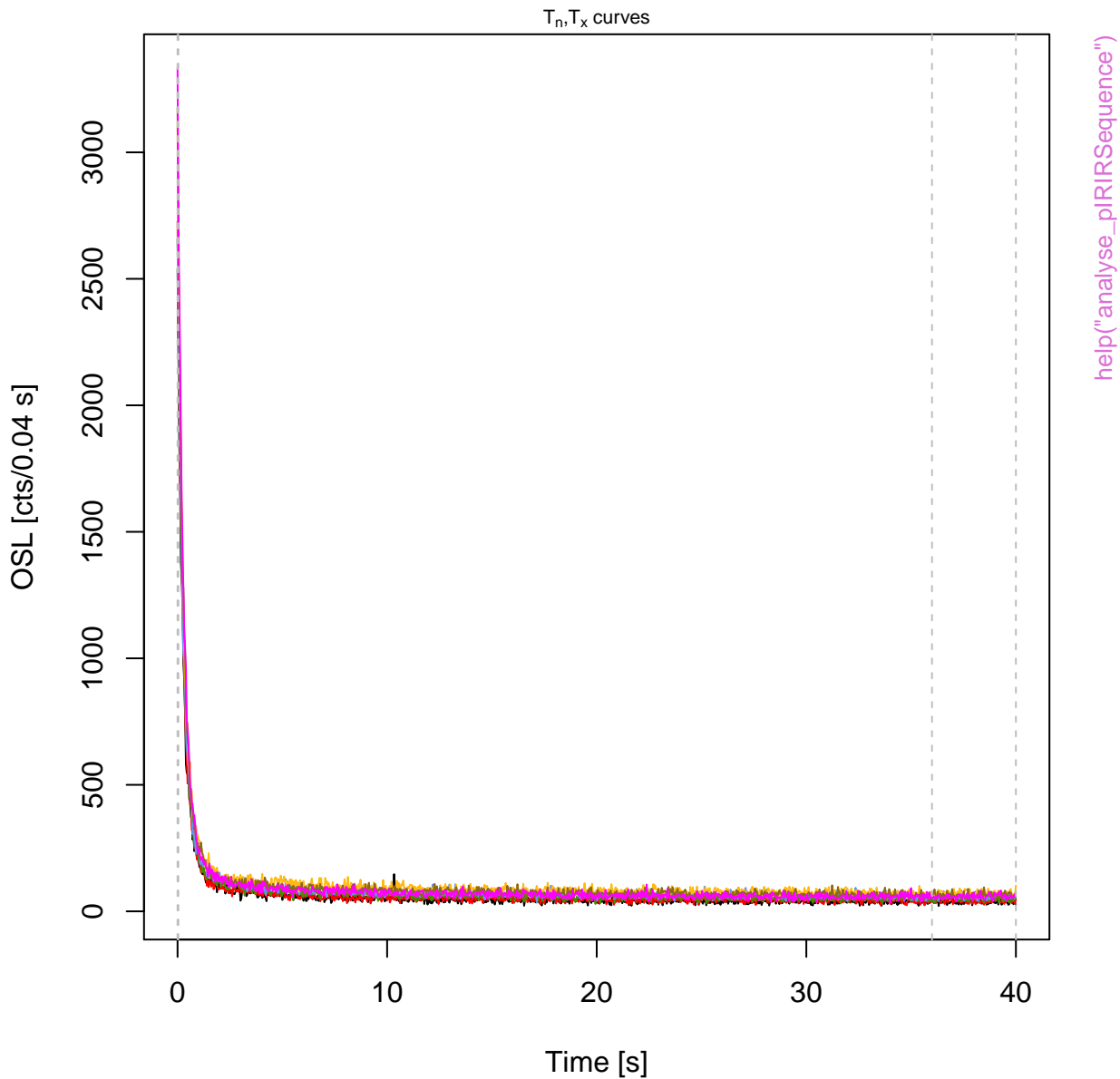
Test dose response

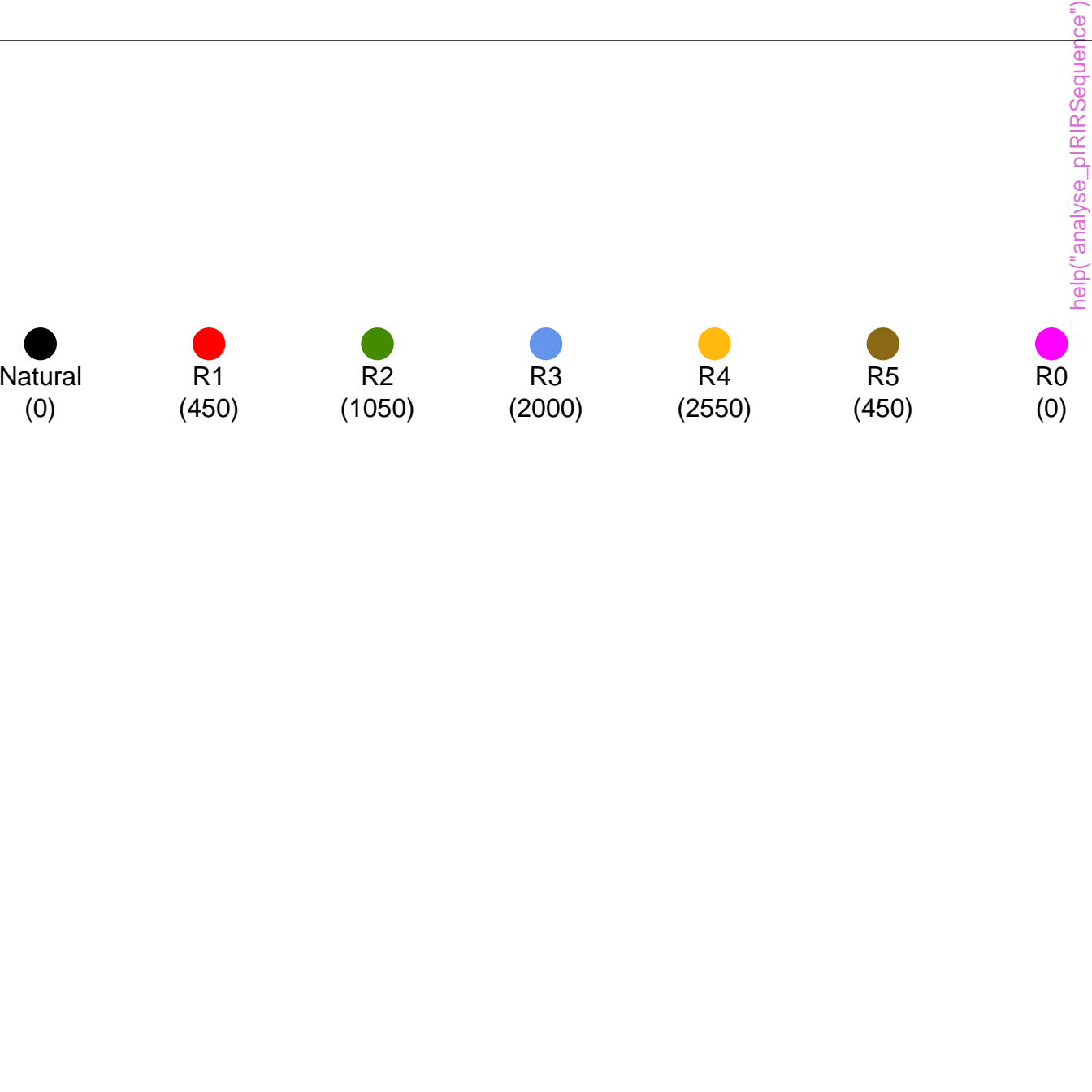


Pseudo pIRIR data set based on quartz OSL



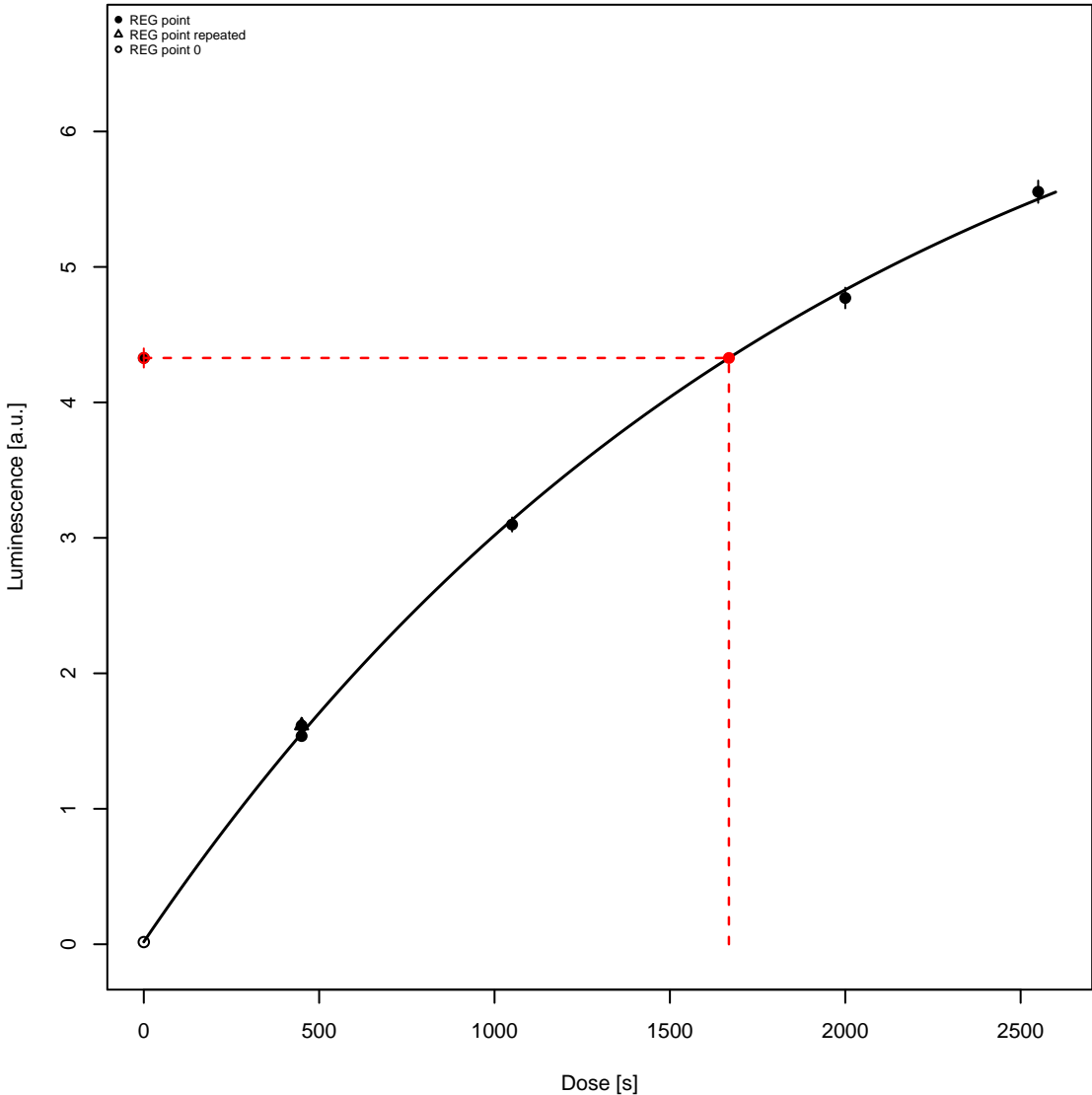
Pseudo pIRIR data set based on quartz OSL





Pseudo pIRIR data set based on quartz OSL

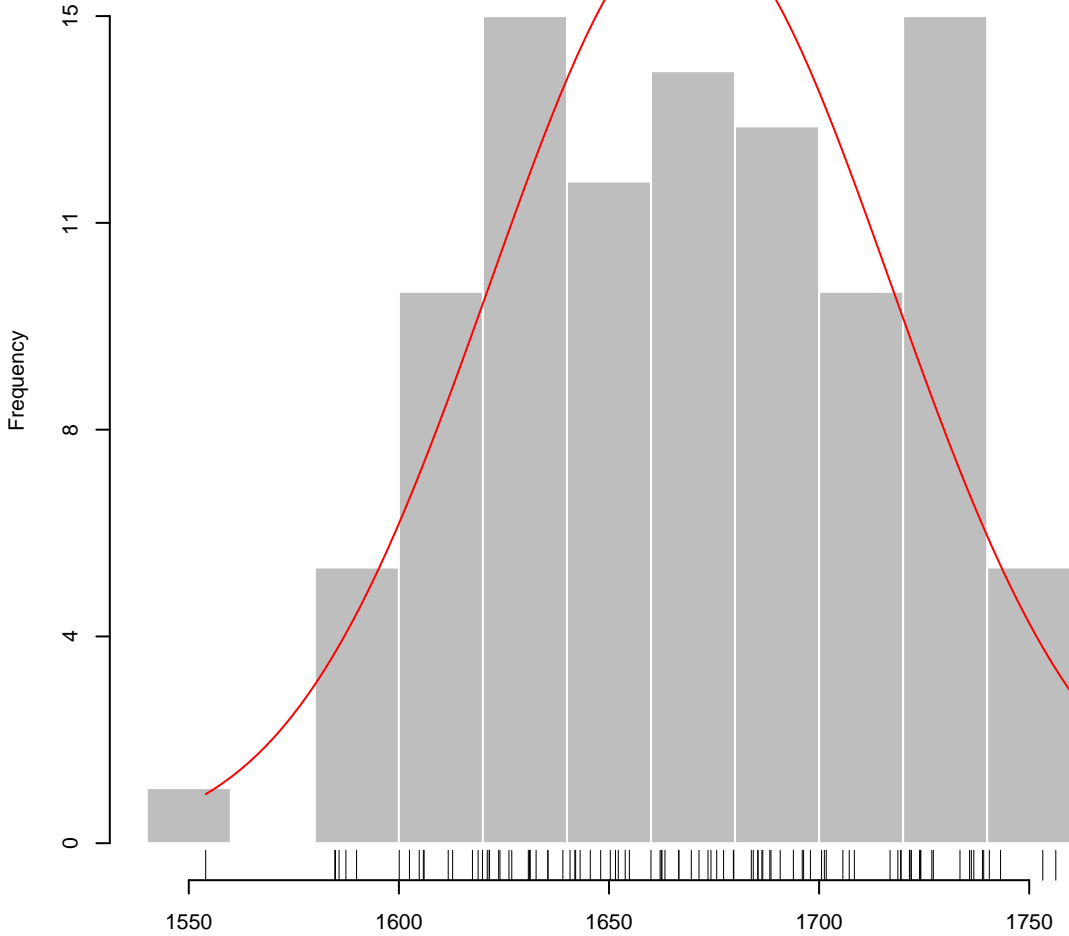
$D_e = 1668.25 \pm 47.59$ | fit: EXP



help("analyse_pIRIRSequence")

D_e from MC simulation

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

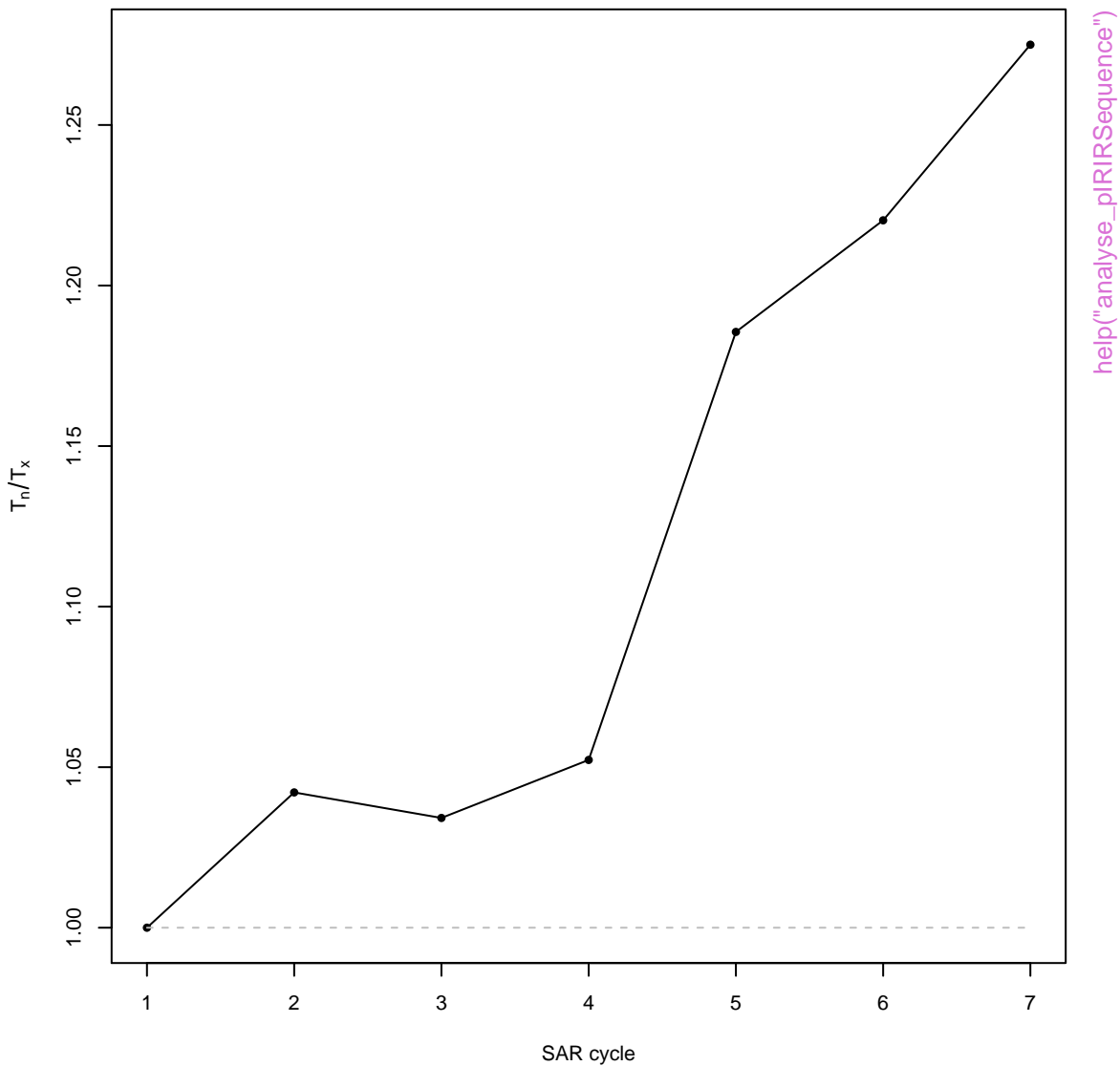


Dose [s]

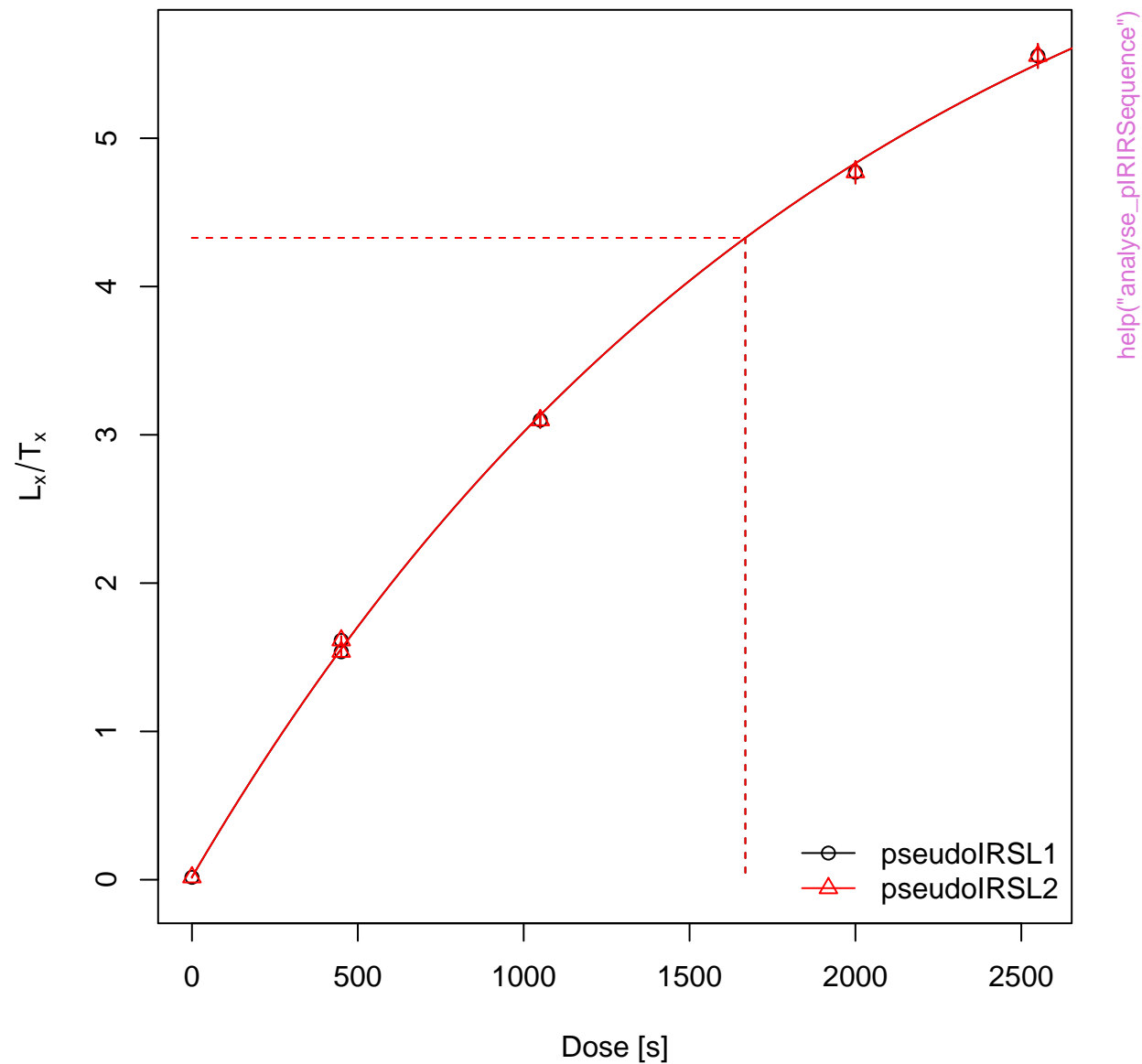
n = 100 , valid fits = 100

help("analyse_pIRSequence")

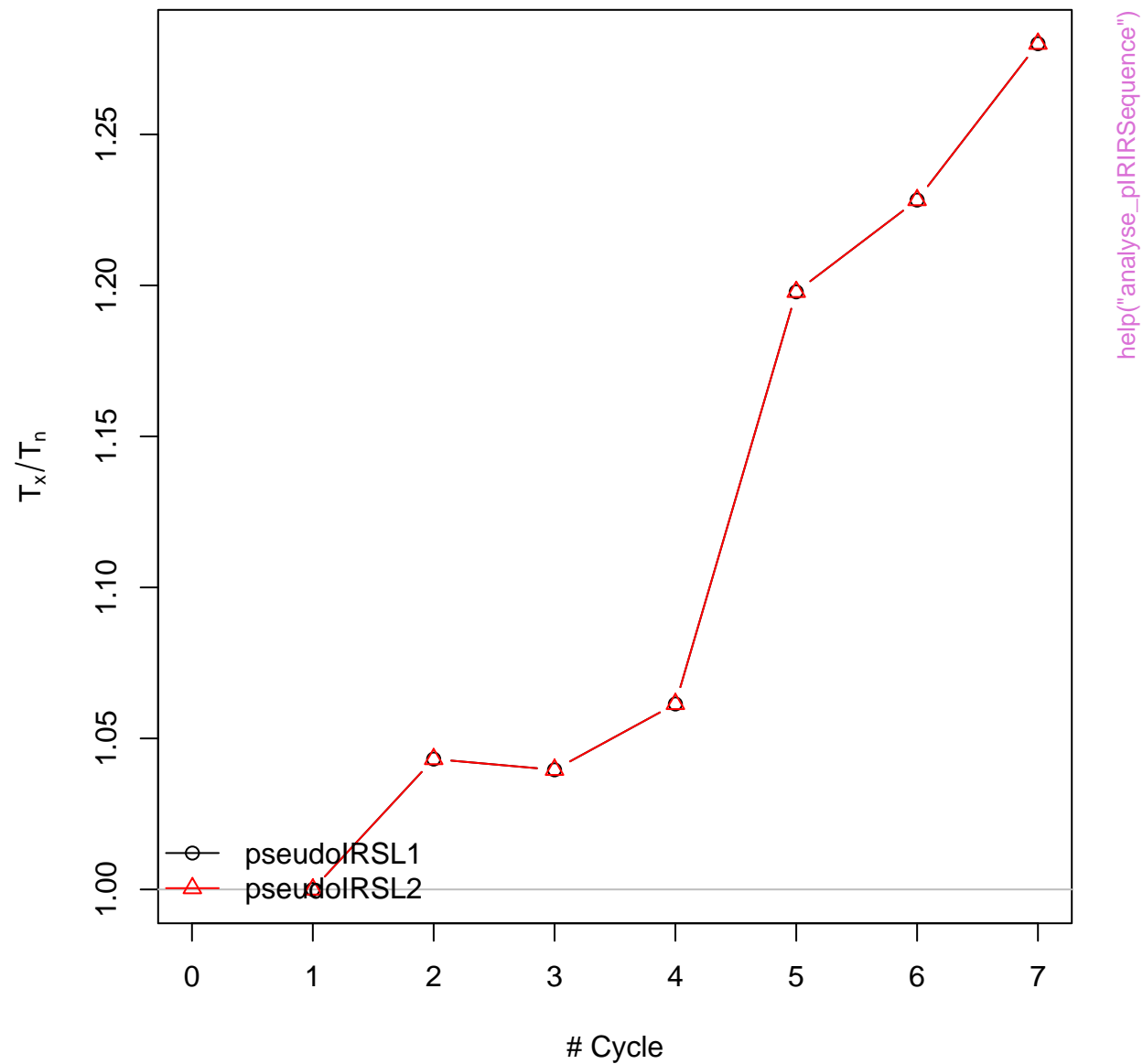
Test dose response



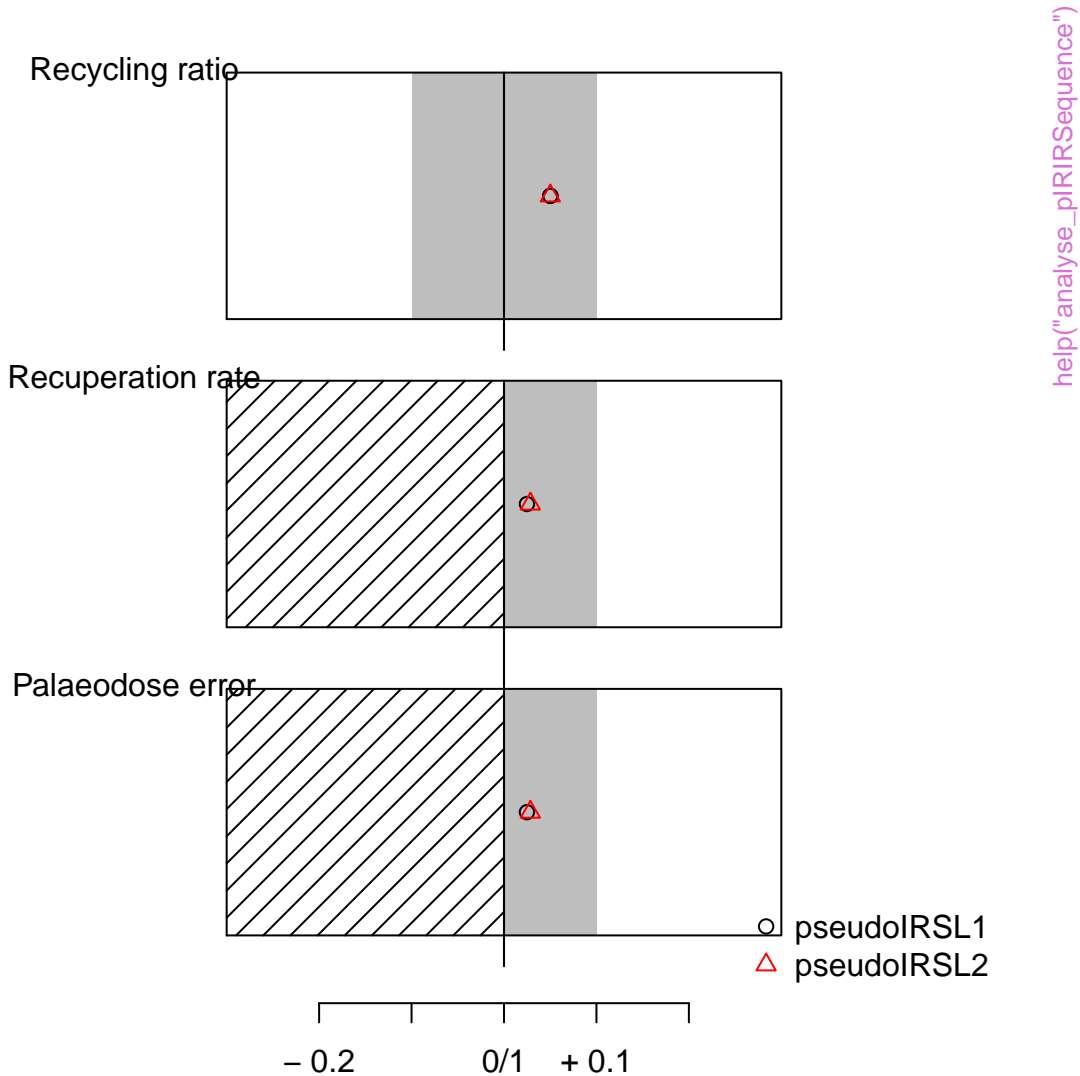
Summarised Dose Response Curves



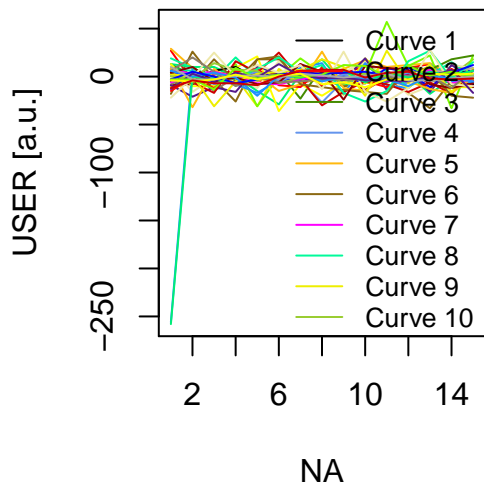
Sensitivity change



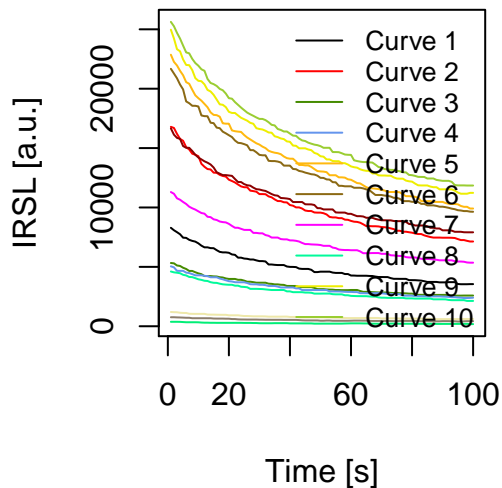
Rejection criteria



USER combined

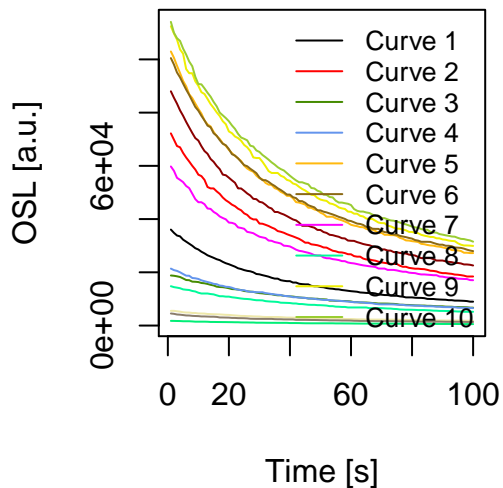


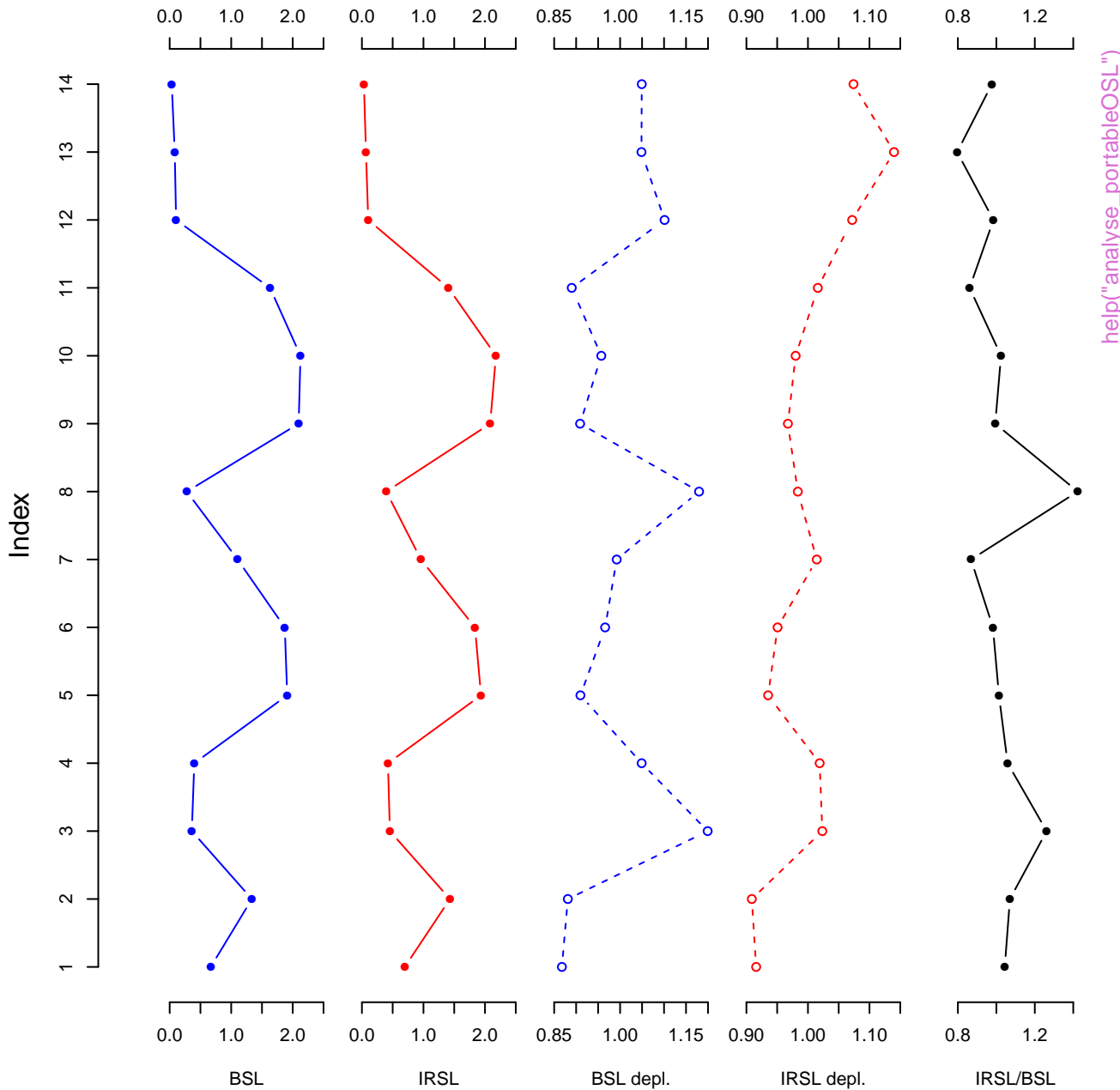
IRSL combined



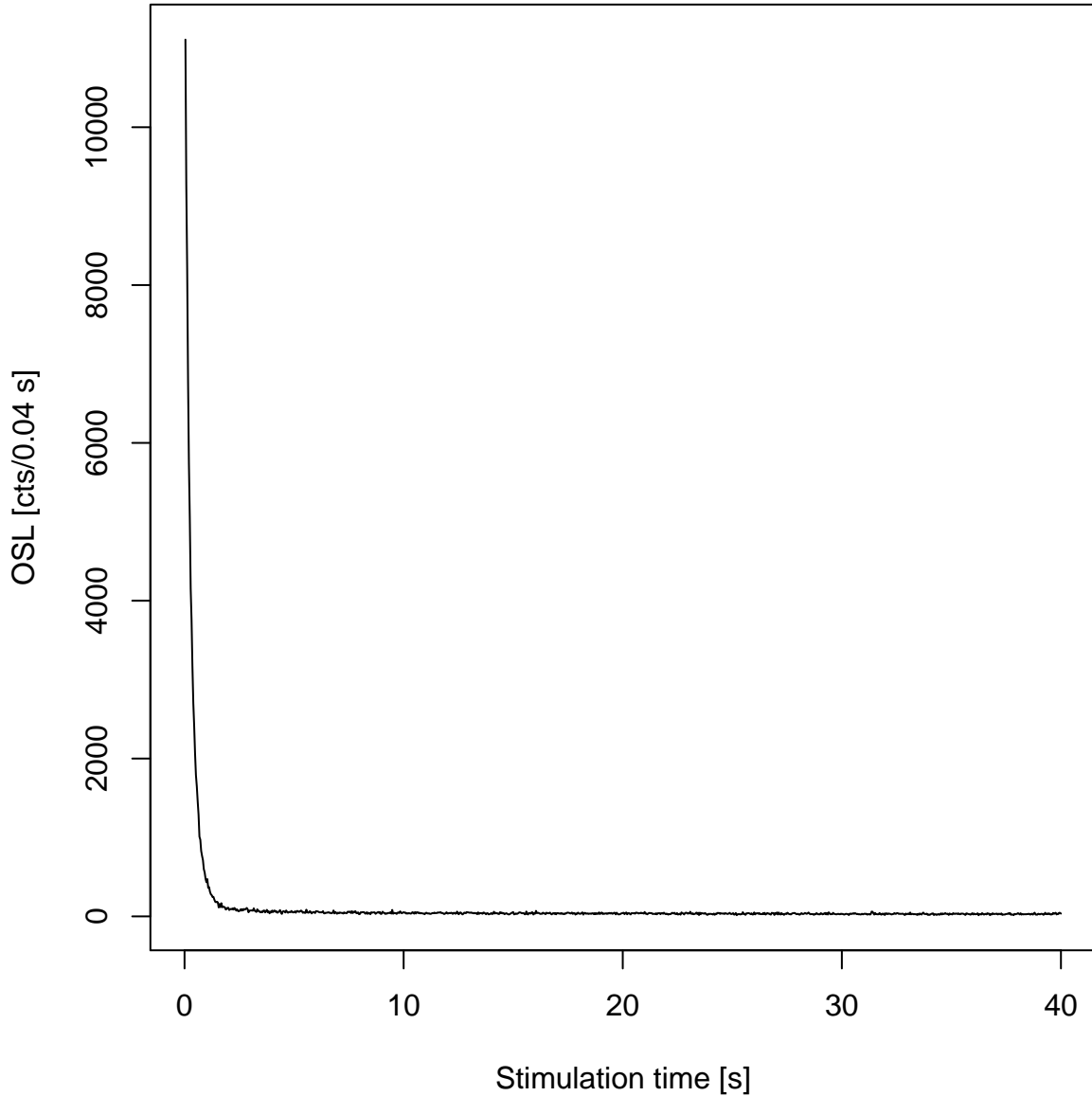
help("analyse_portableOSL")

OSL combined



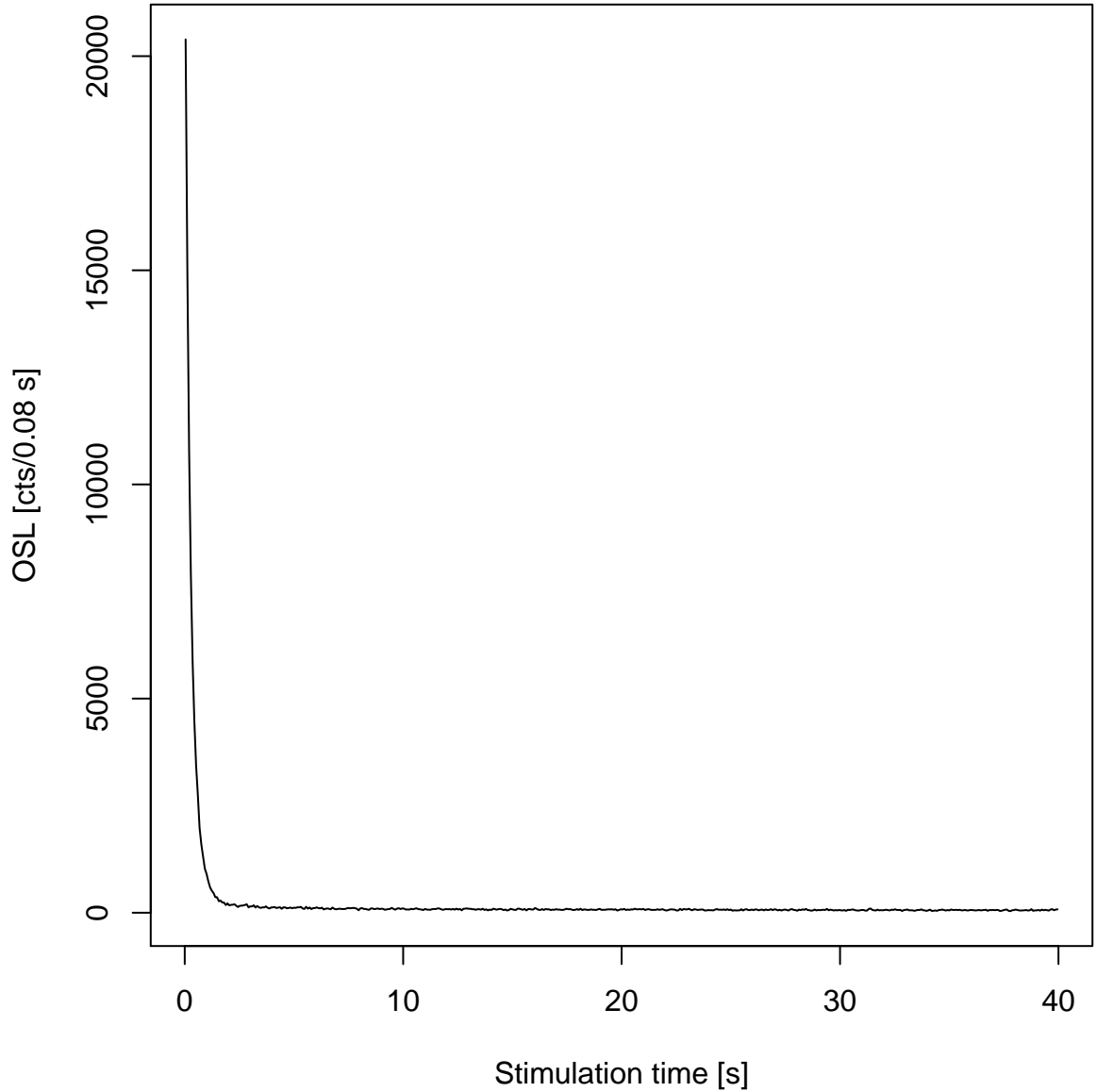


OSL



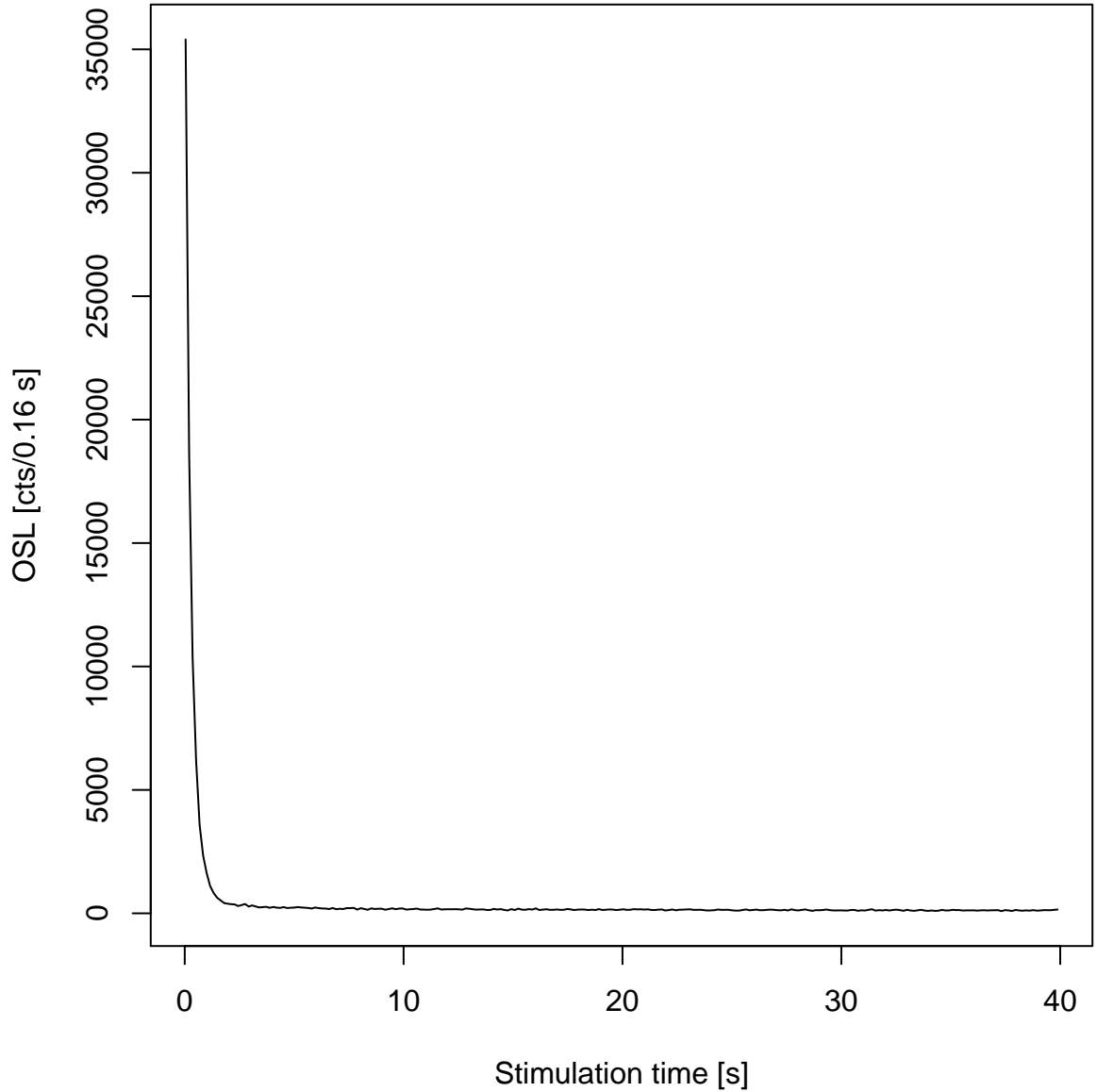
`help("bin_RLum.Data")`

OSL



`help("bin_RLum.Data")`

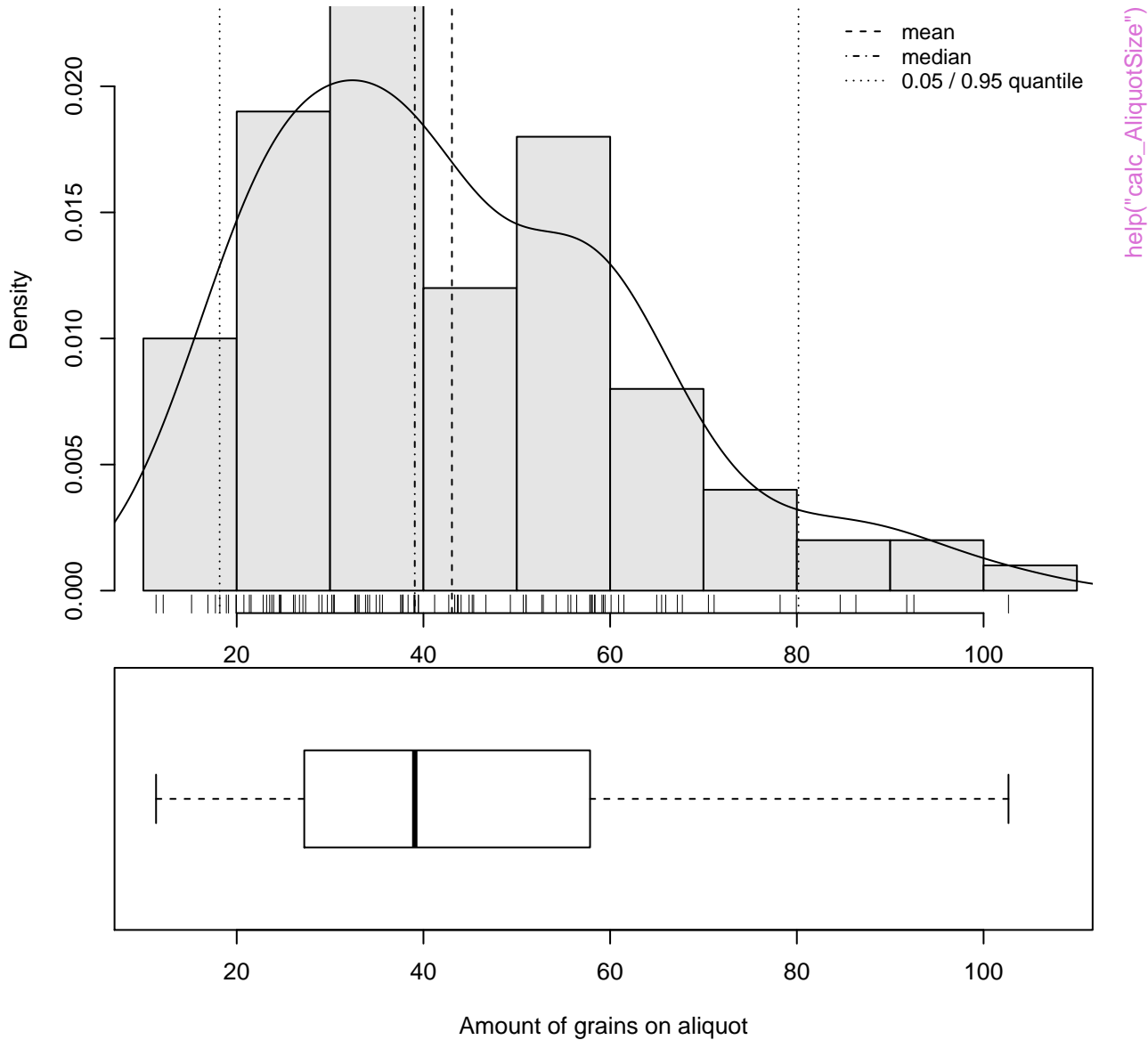
OSL



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



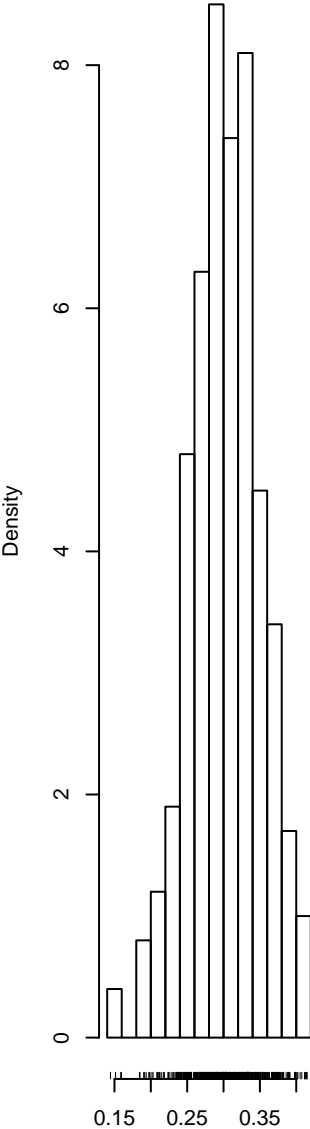
Bootstrapping: Average Dose

n = 500



Bootstrapping: Sigma_d

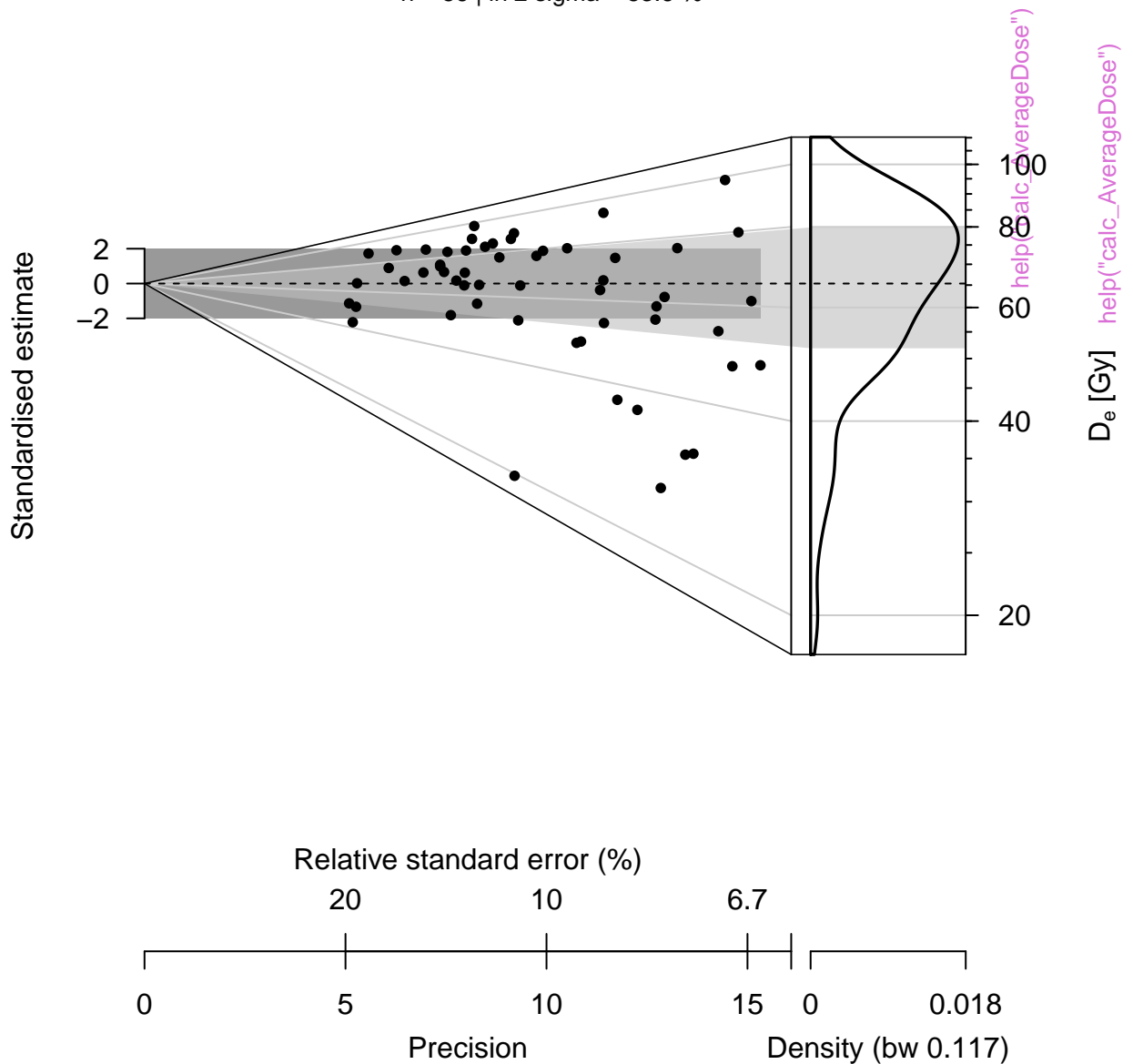
n = 500



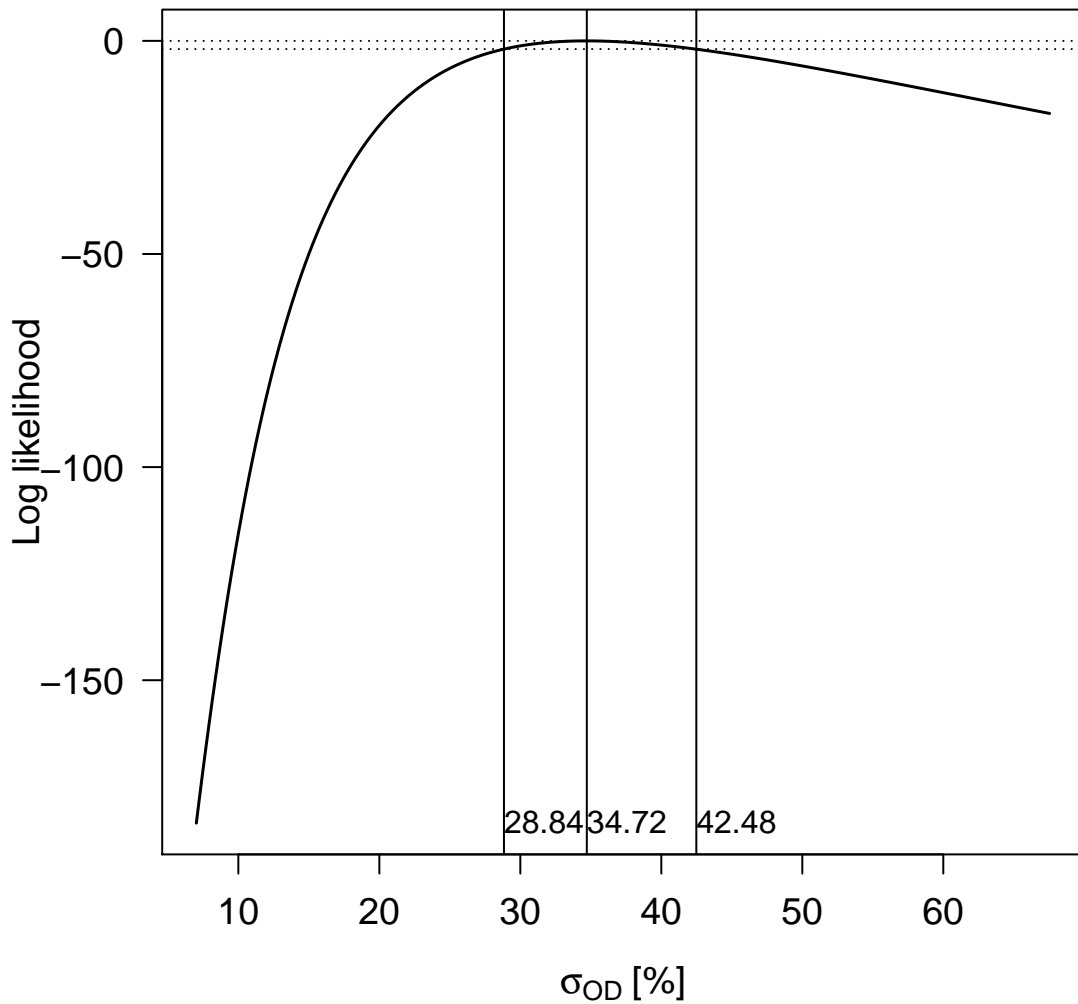
help("calc_AverageDose")

D_e distribution

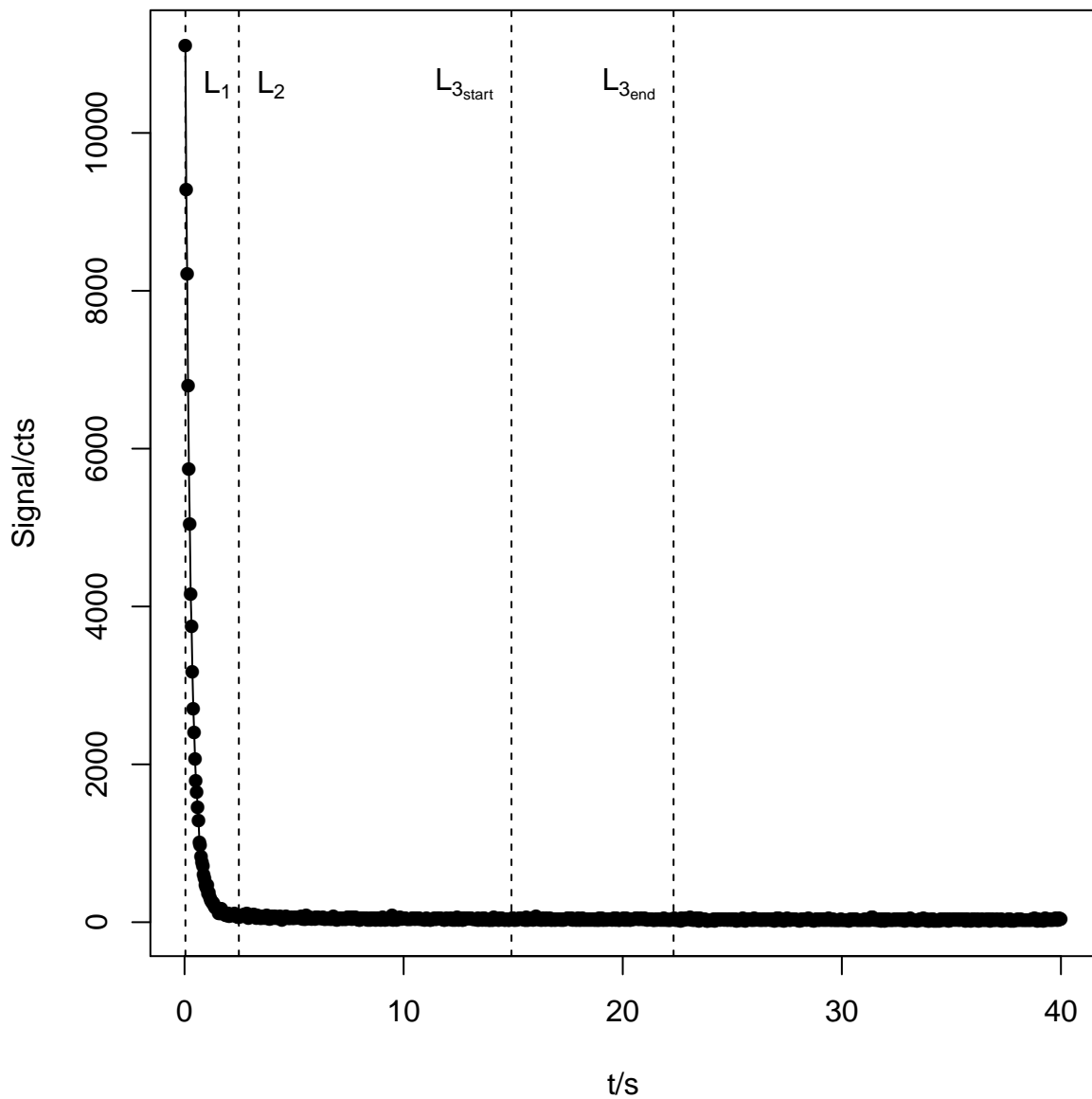
n = 56 | in 2 sigma = 53.6 %



Profile log likelihood for σ_{OD}



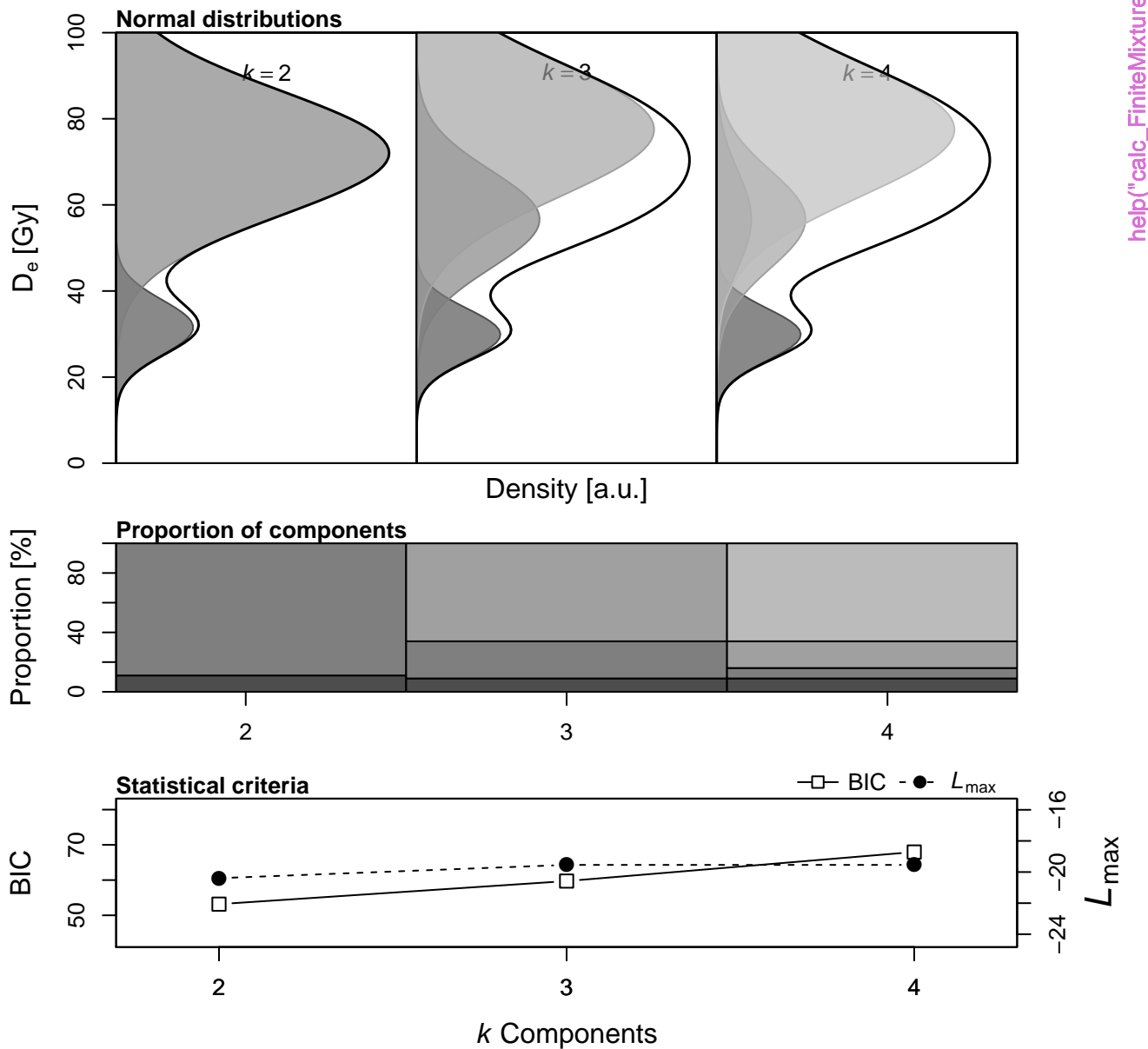
Fast Ratio



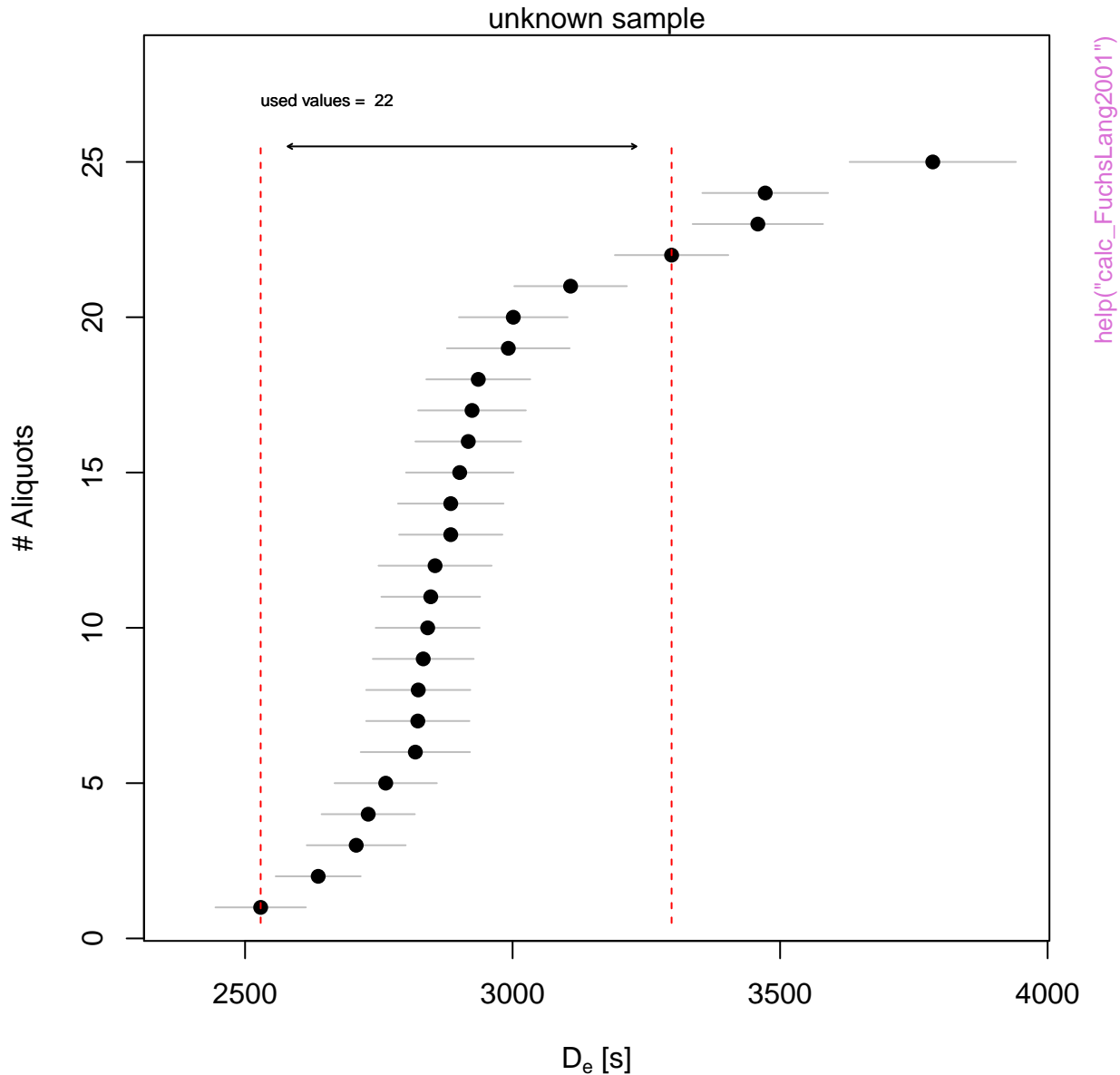
help("calc_FastRatio")

Finite Mixture Model

$\sigma_b = 0.2 \mid n = 62$



Fuchs & Lang (2001)

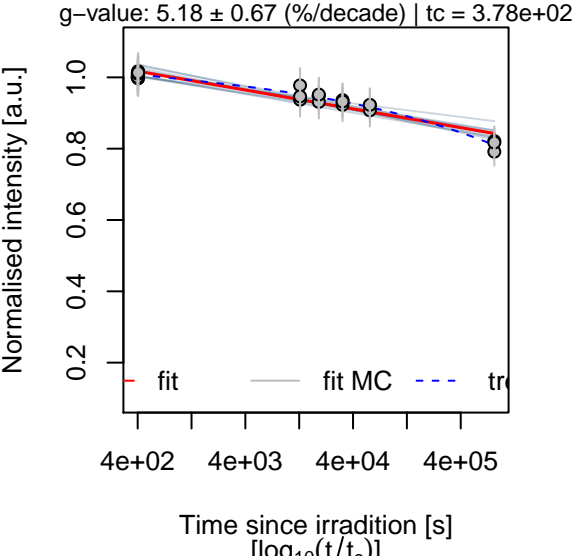


No L_x curves detected

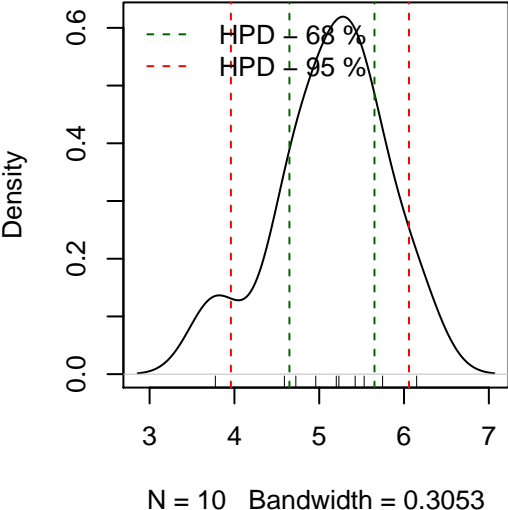
No T_x curves detected

help("calc_Huntley2006")

Signal Fading

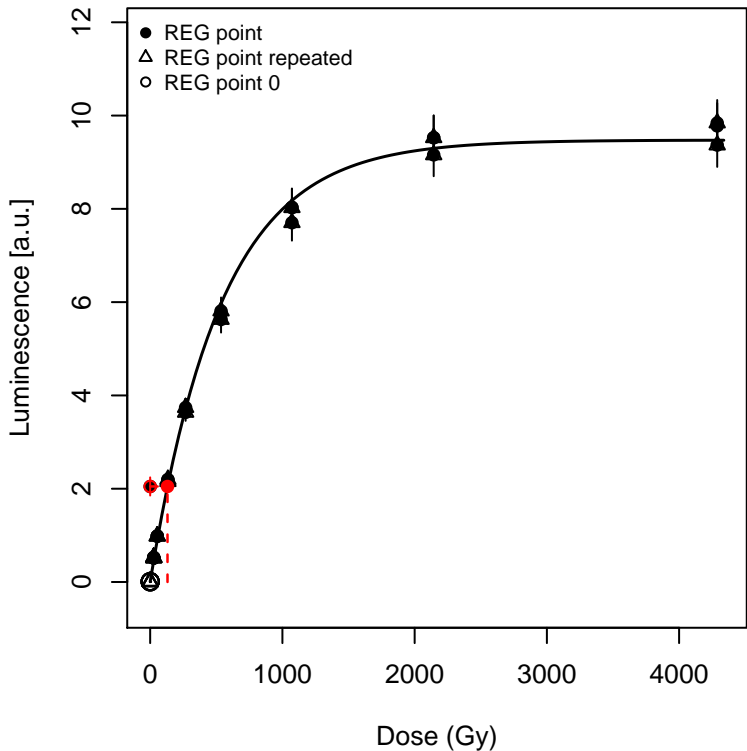


Density: g-values (%/decade)



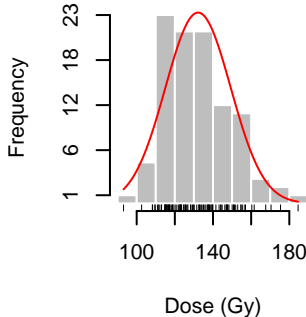
Measured dose response curve

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

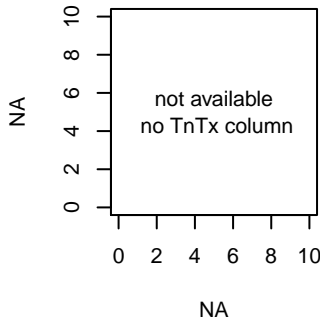


D_e from MC simulation

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

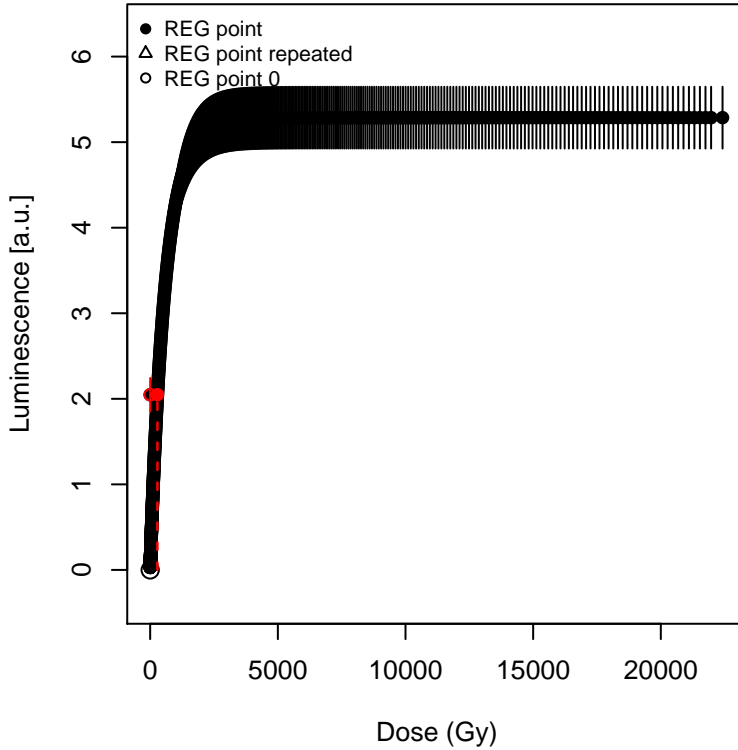


Test dose response



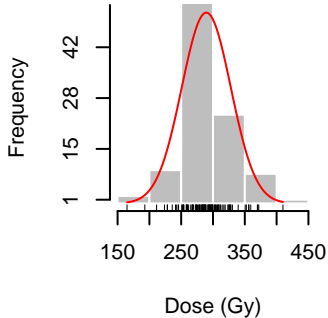
Simulated dose response curve

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



D_e from MC simulation

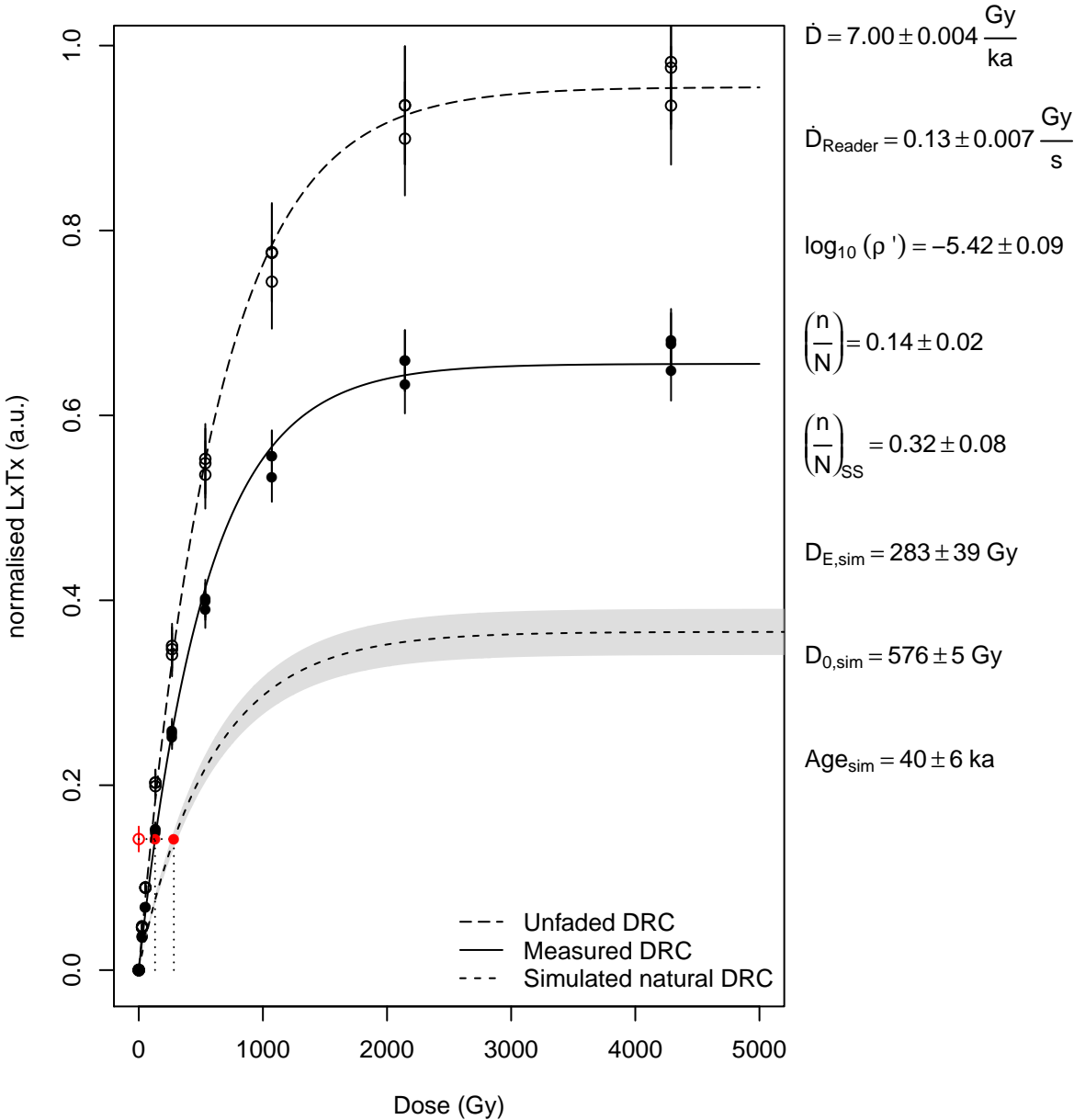
$D_{eMC} = 289.46 \pm 38.63$ | quality = 97.6 %

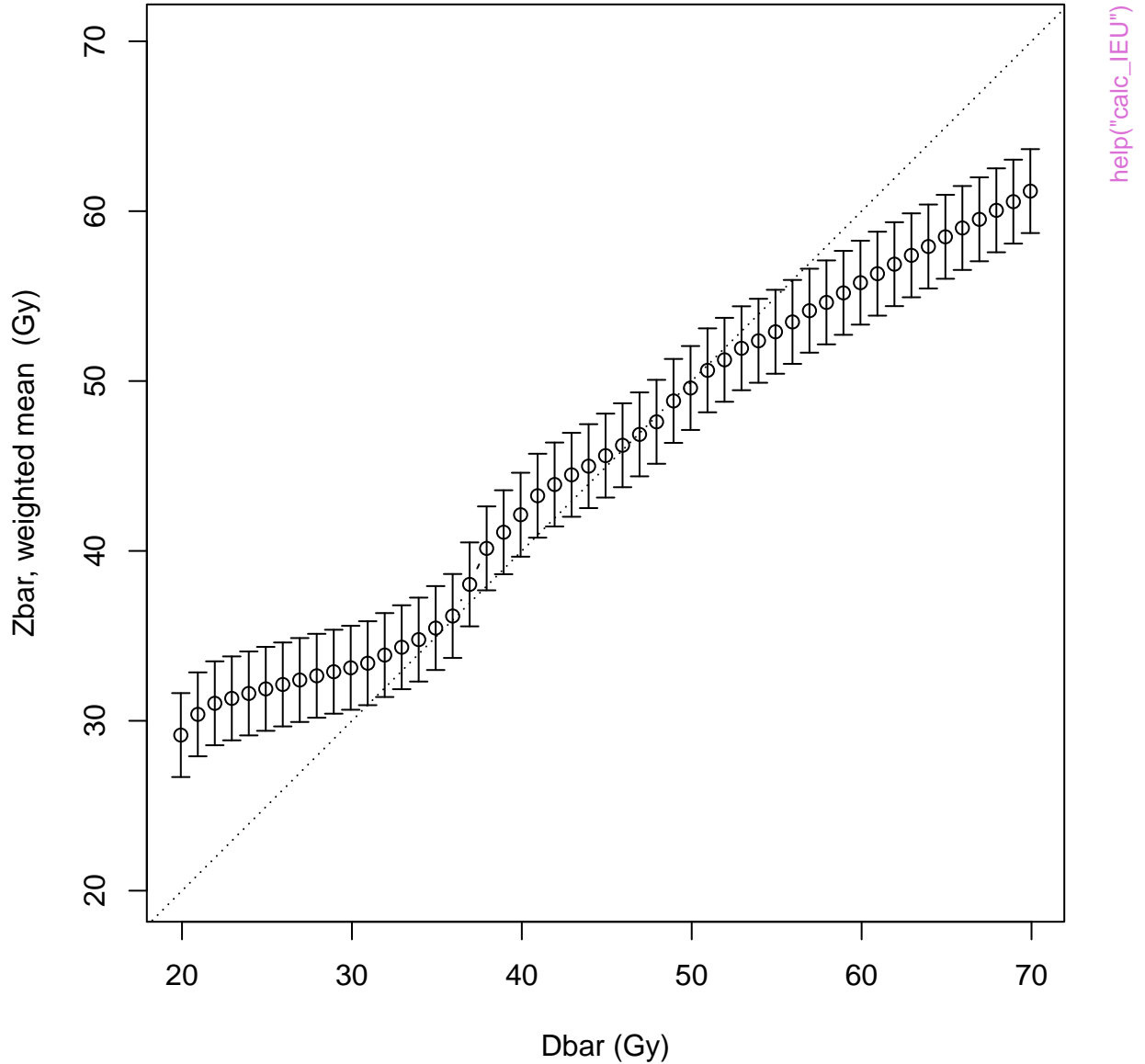


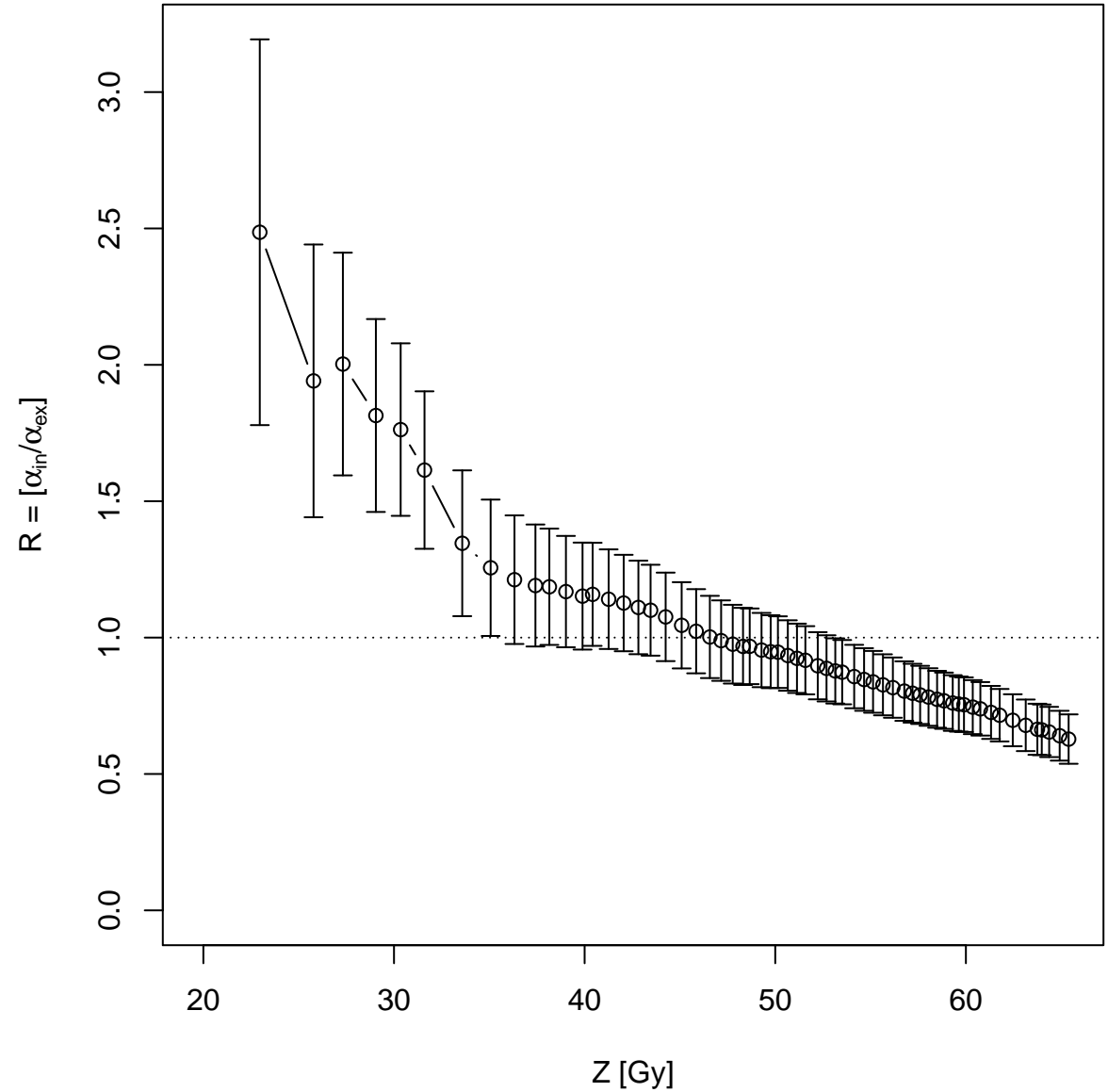
Test dose response



Dose response curves







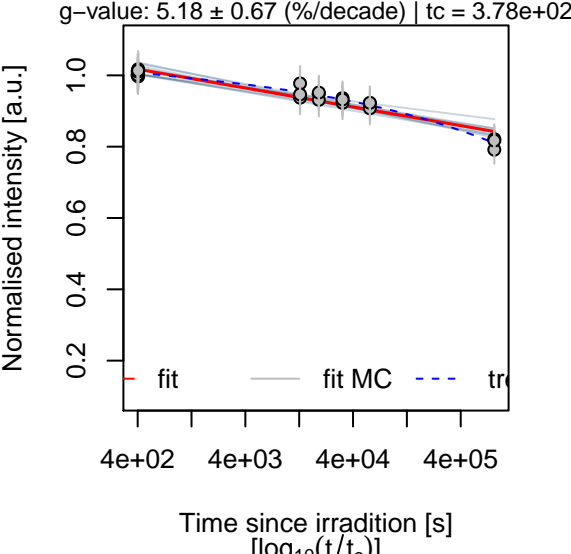
help("calc_I EU")

No L_x curves detected

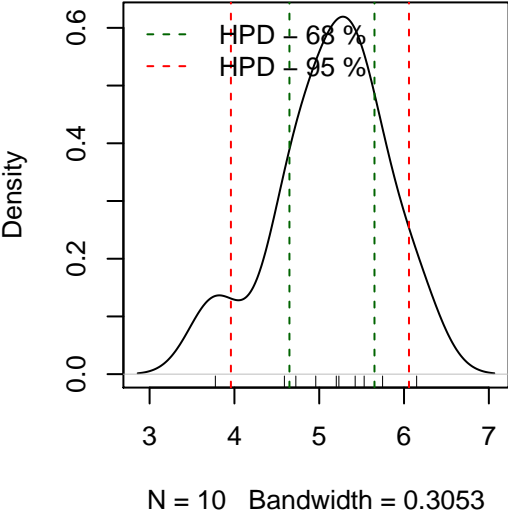
No T_x curves detected

help("calc_Kars2008")

Signal Fading

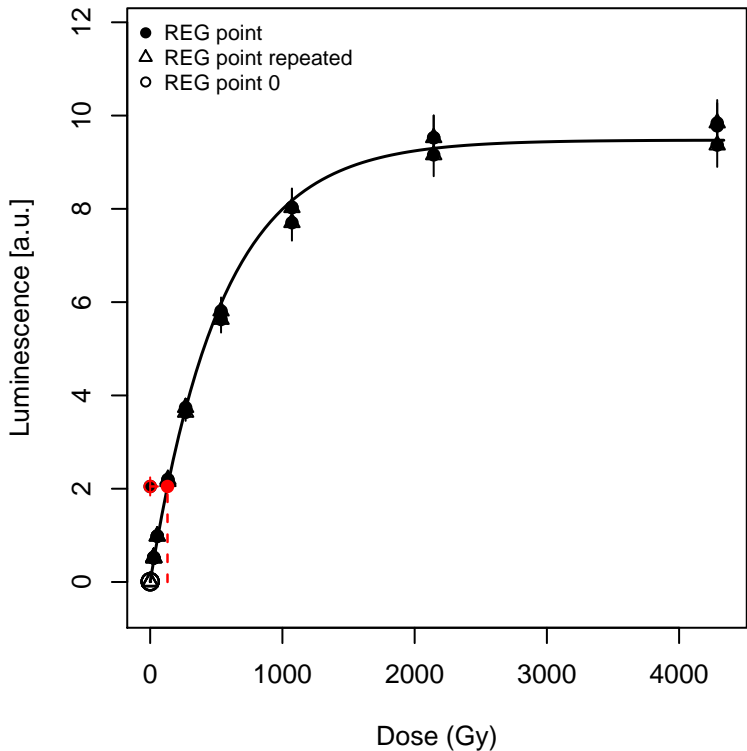


Density: g-values (%/decade)



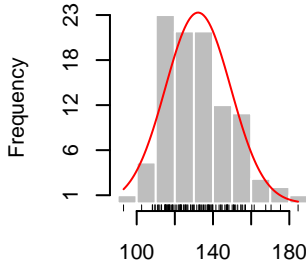
Measured dose response curve

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

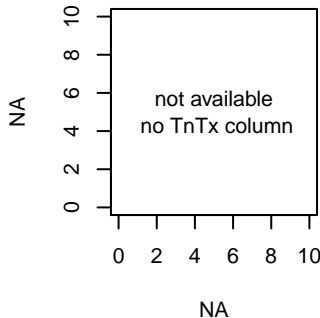


D_e from MC simulation

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

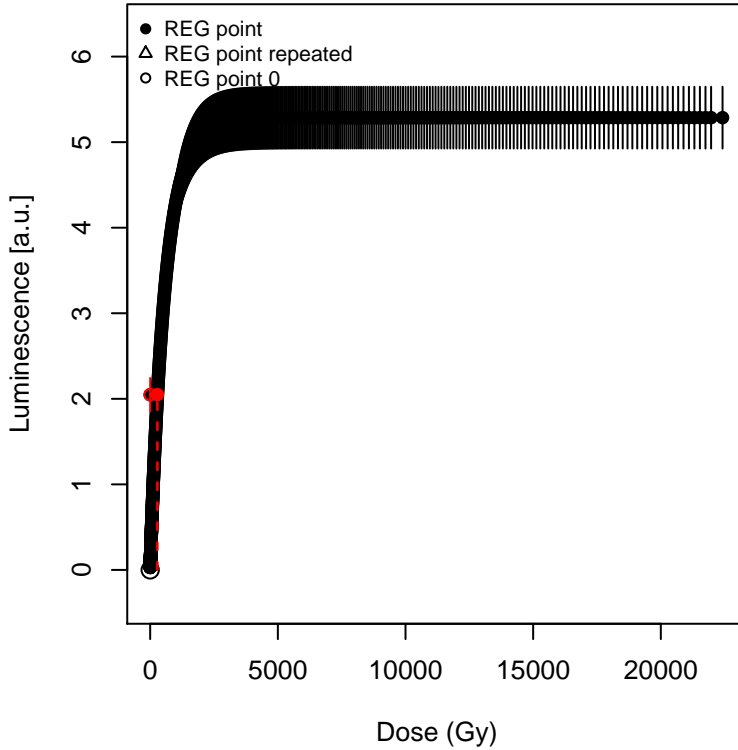


Test dose response



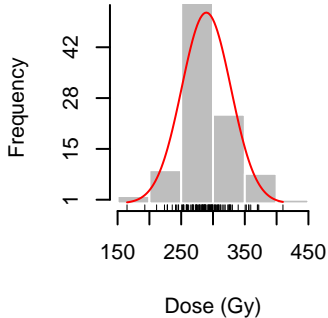
Simulated dose response curve

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

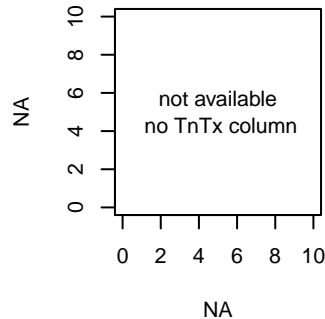


D_e from MC simulation

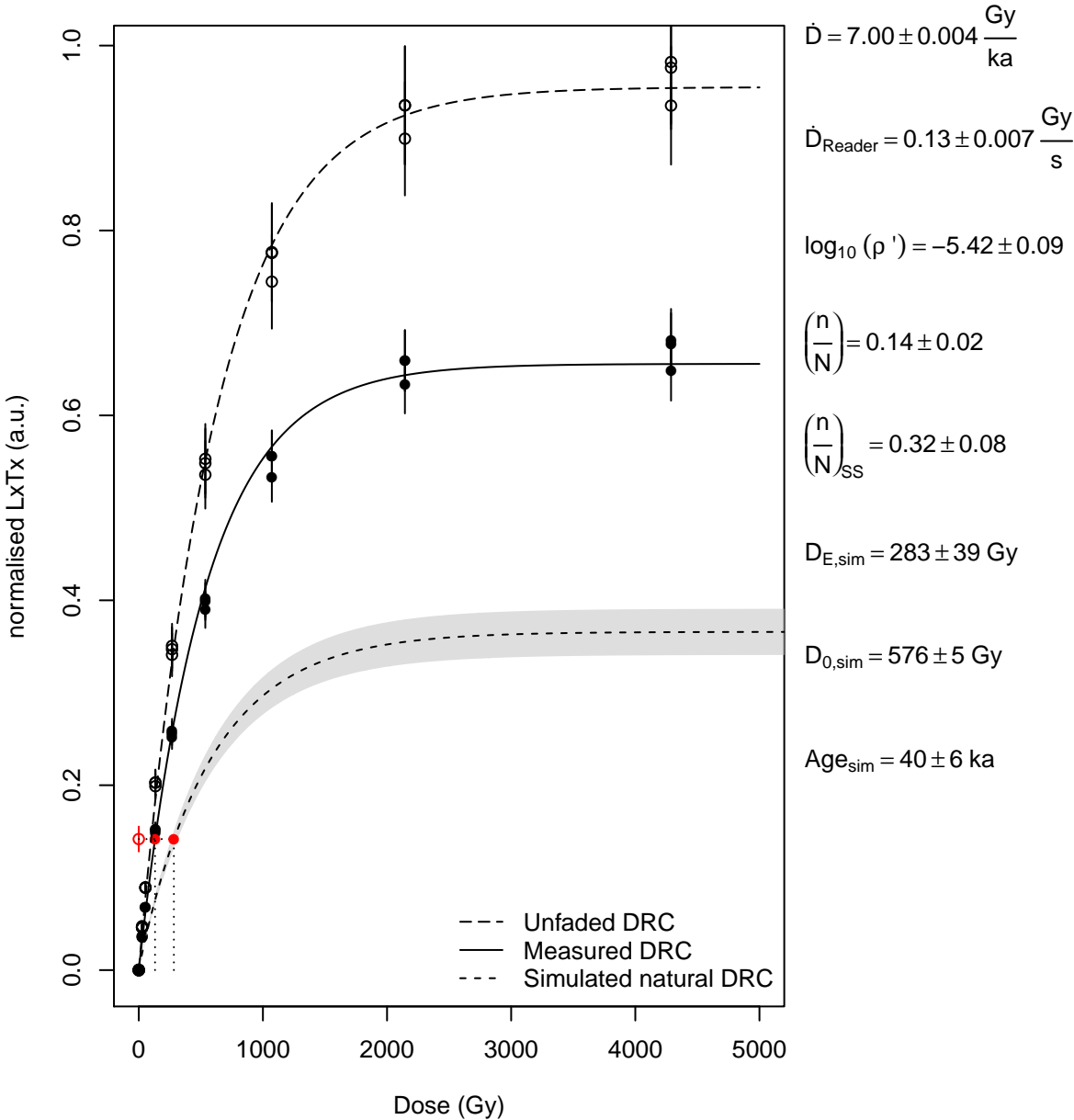
$D_{eMC} = 289.46 \pm 38.63$ | quality = 97.6 %



Test dose response

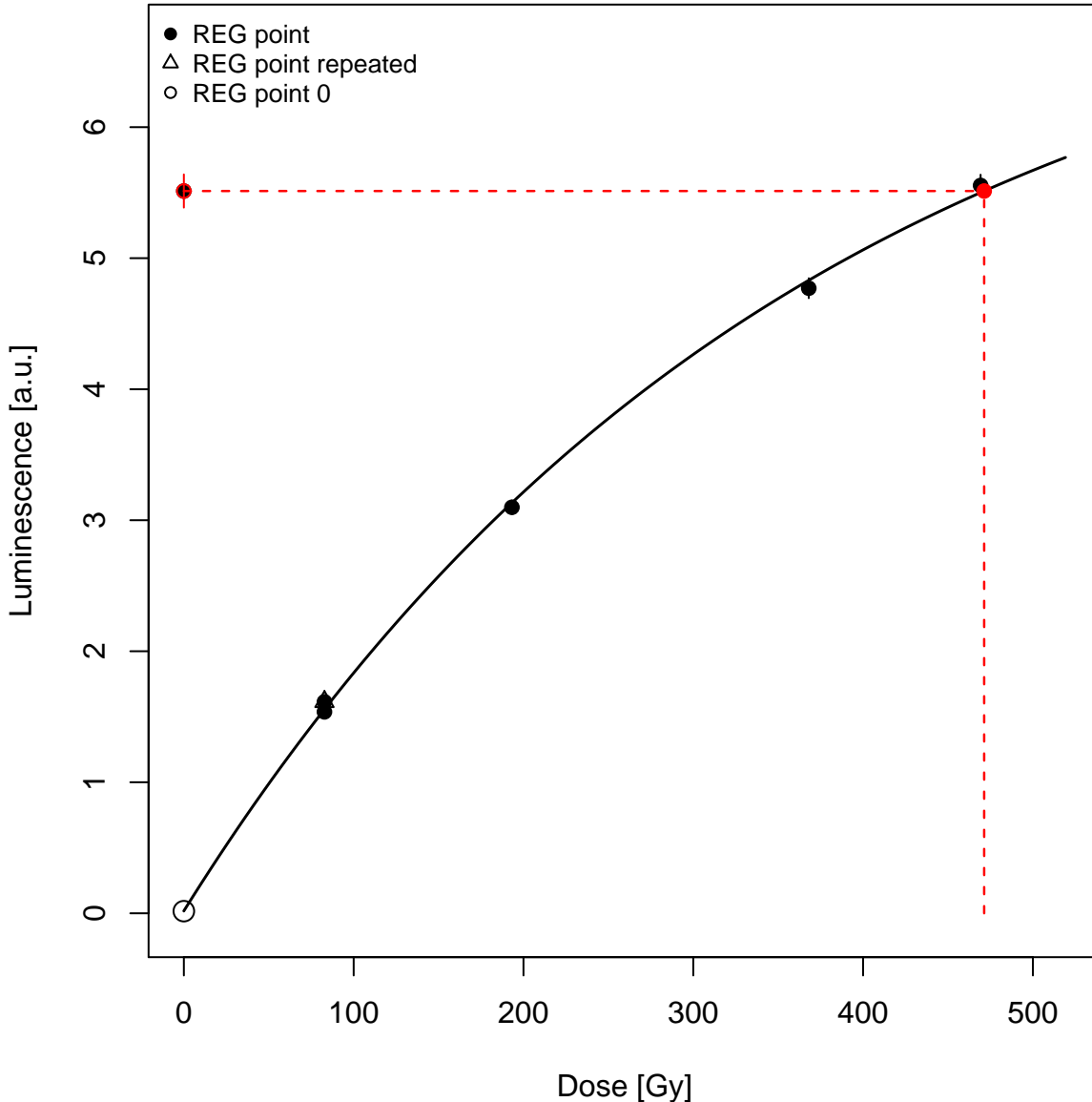


Dose response curves



Corrected Dose Response Curve

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

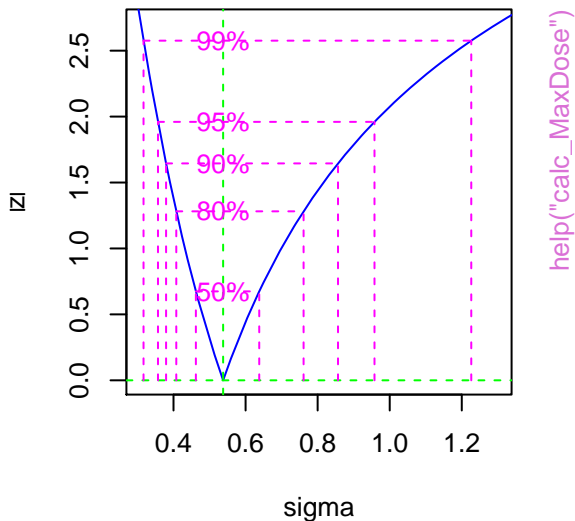


help("calc_Lamothe2003")

Likelihood profile: gamma



Likelihood profile: sigma



help("calc_MaxDose")

Likelihood profile: p0



Likelihood profile: gamma

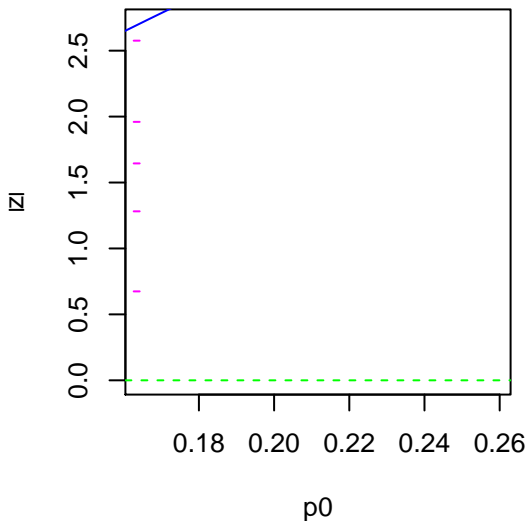


Likelihood profile: sigma



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")`

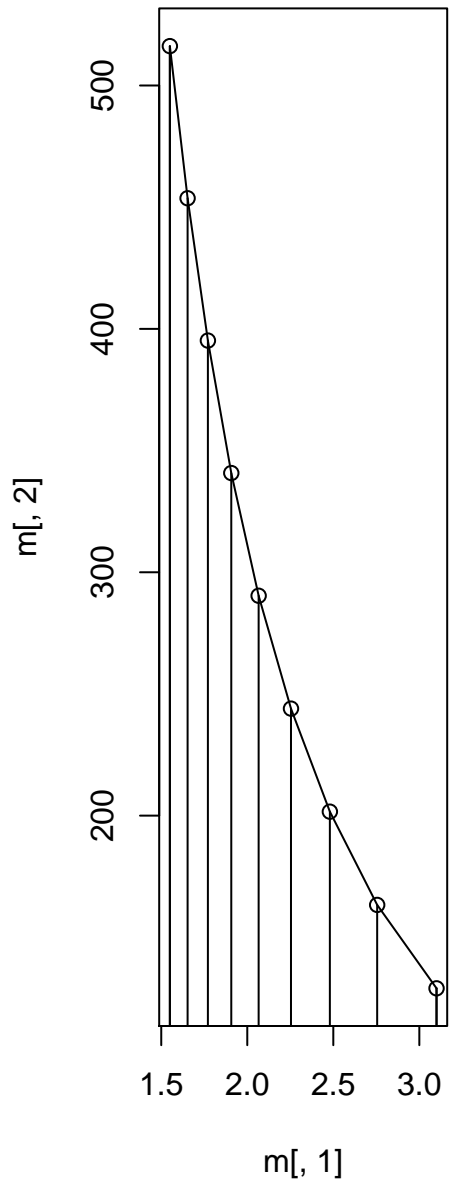
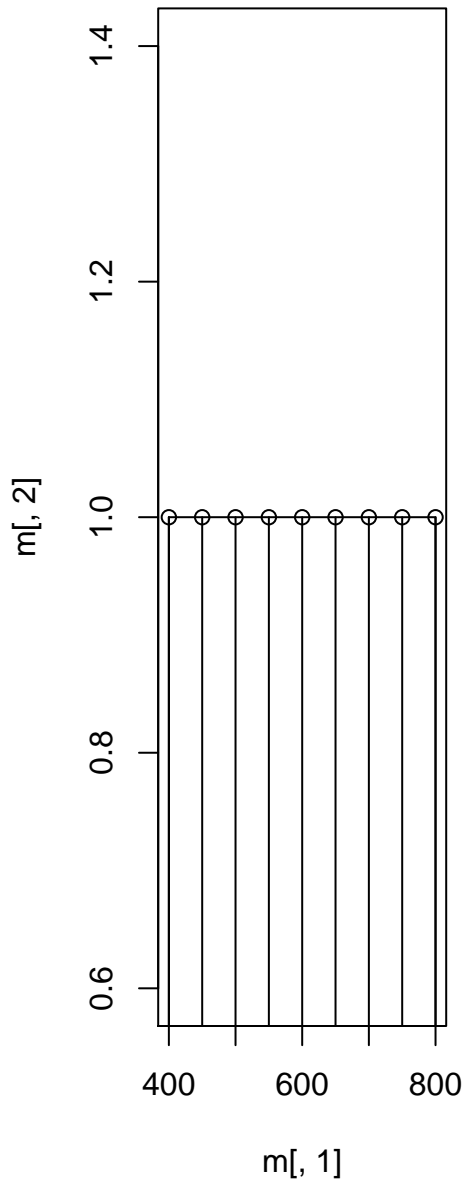
D_e applying Woda and Fuchs (2008)



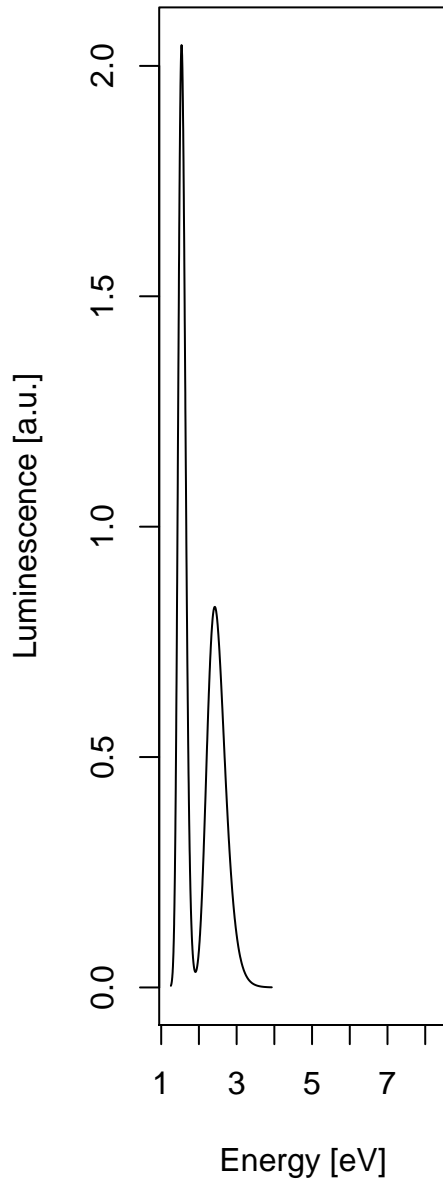
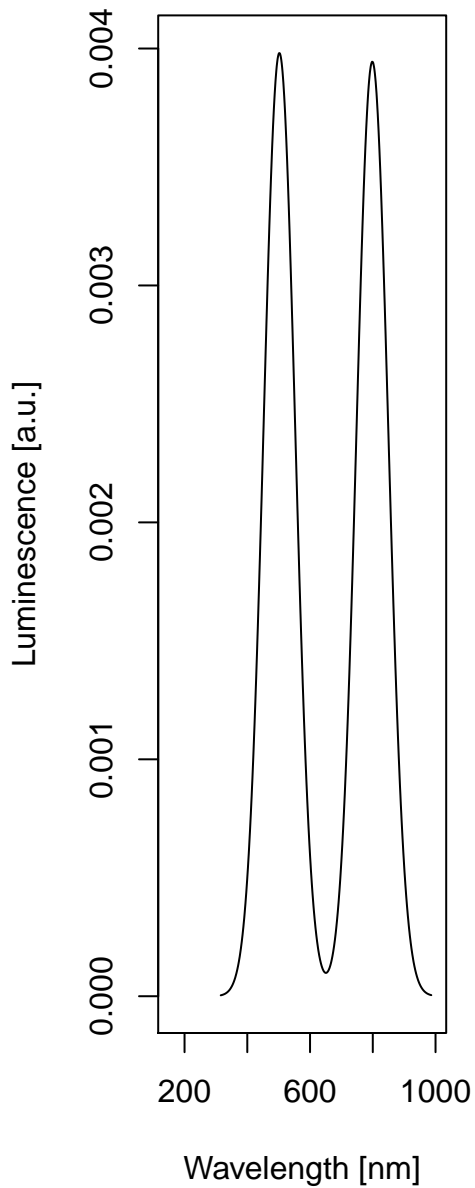
help("calc_WodaFuchs2008")

gSGC and resulting De





help("convert_Wavelength2Energy")



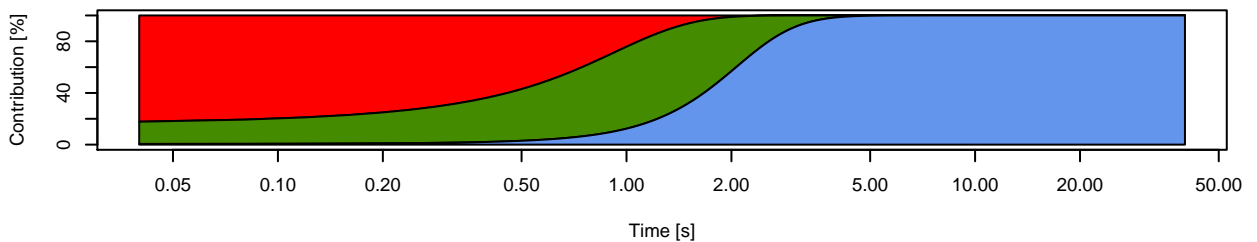
[help\("convert_Wavelength2Energy"\)](#)

CW Curve Fit

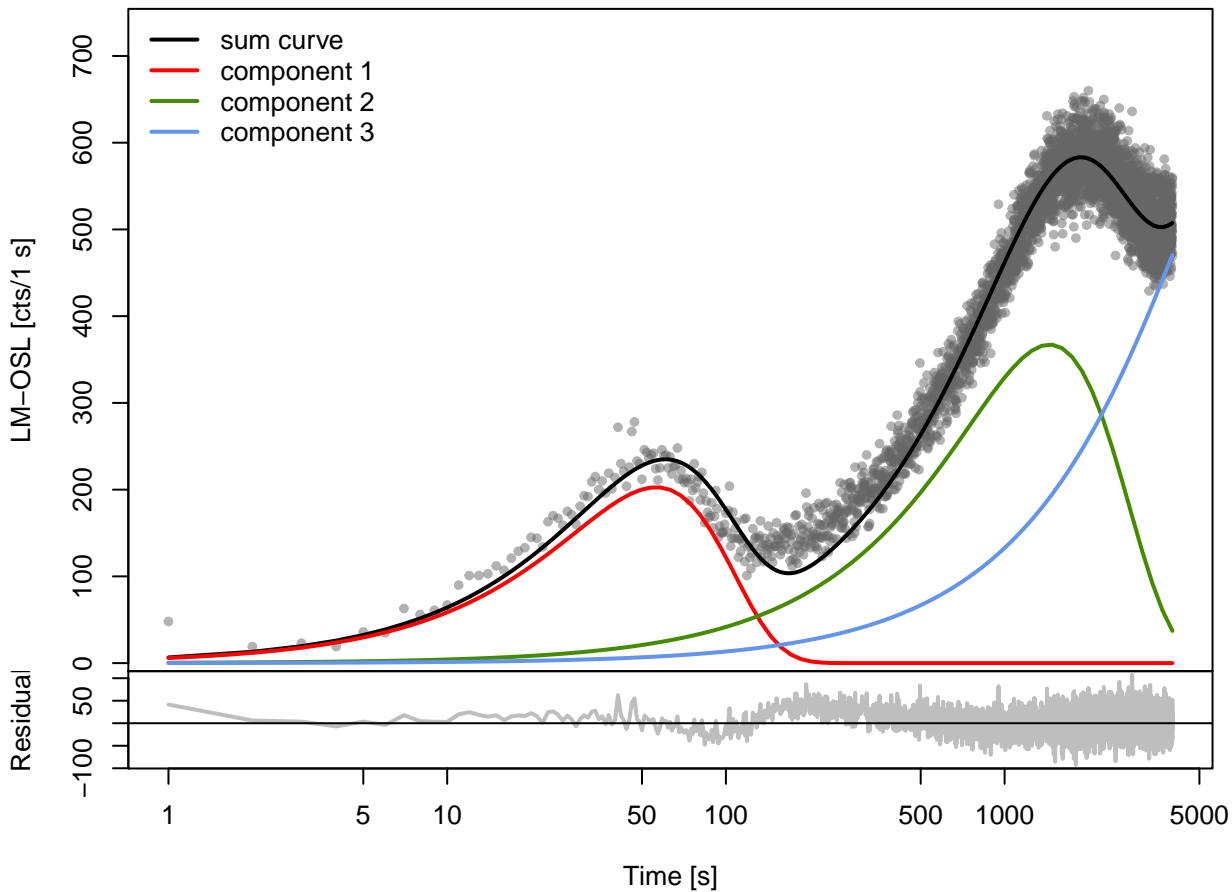
Default



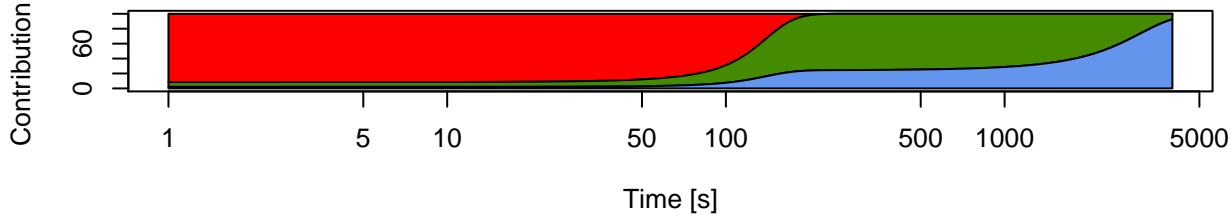
Component contribution to sum curve



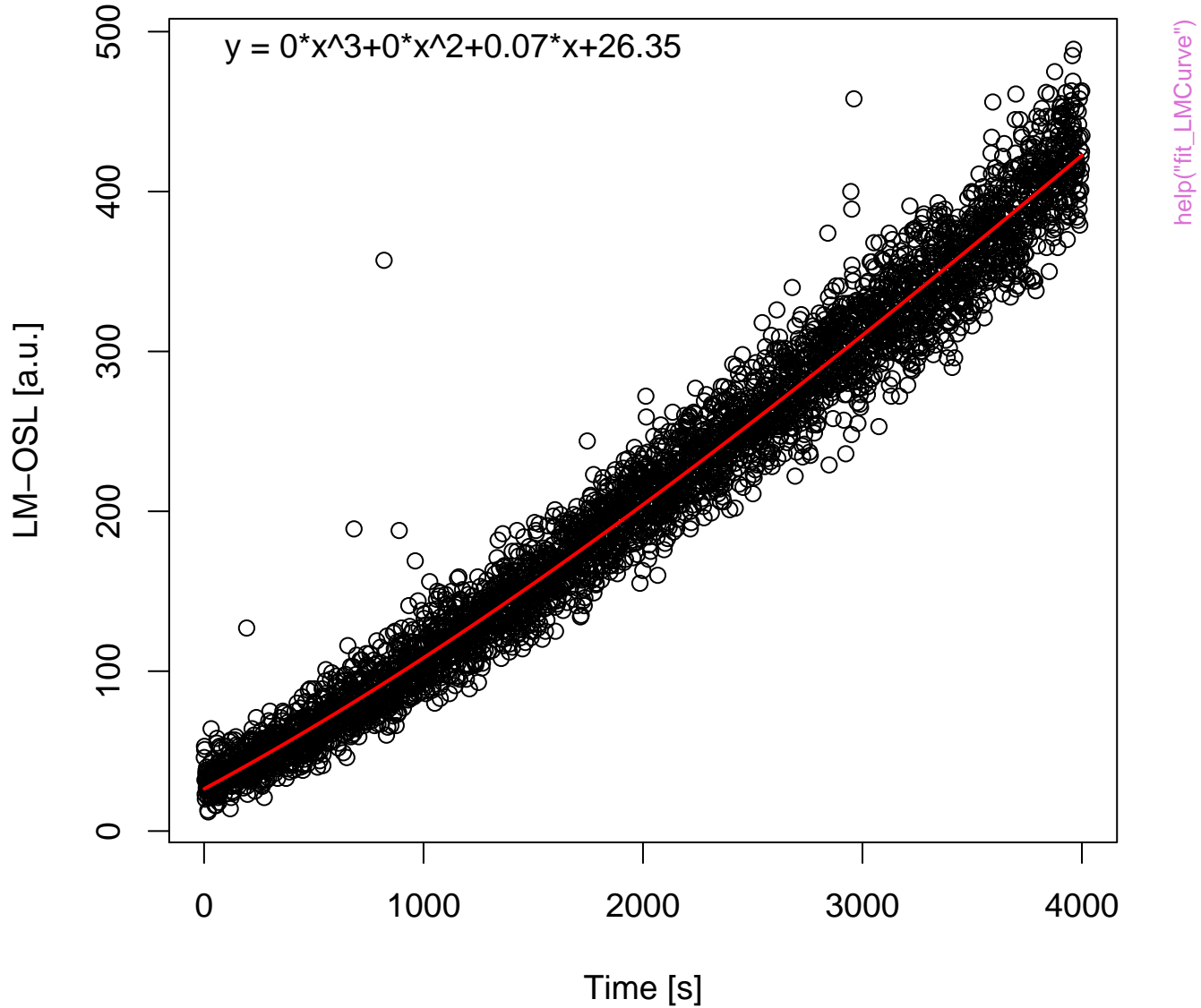
Default



Component contribution to sum curve



Background



Default



Component contribution to sum curve



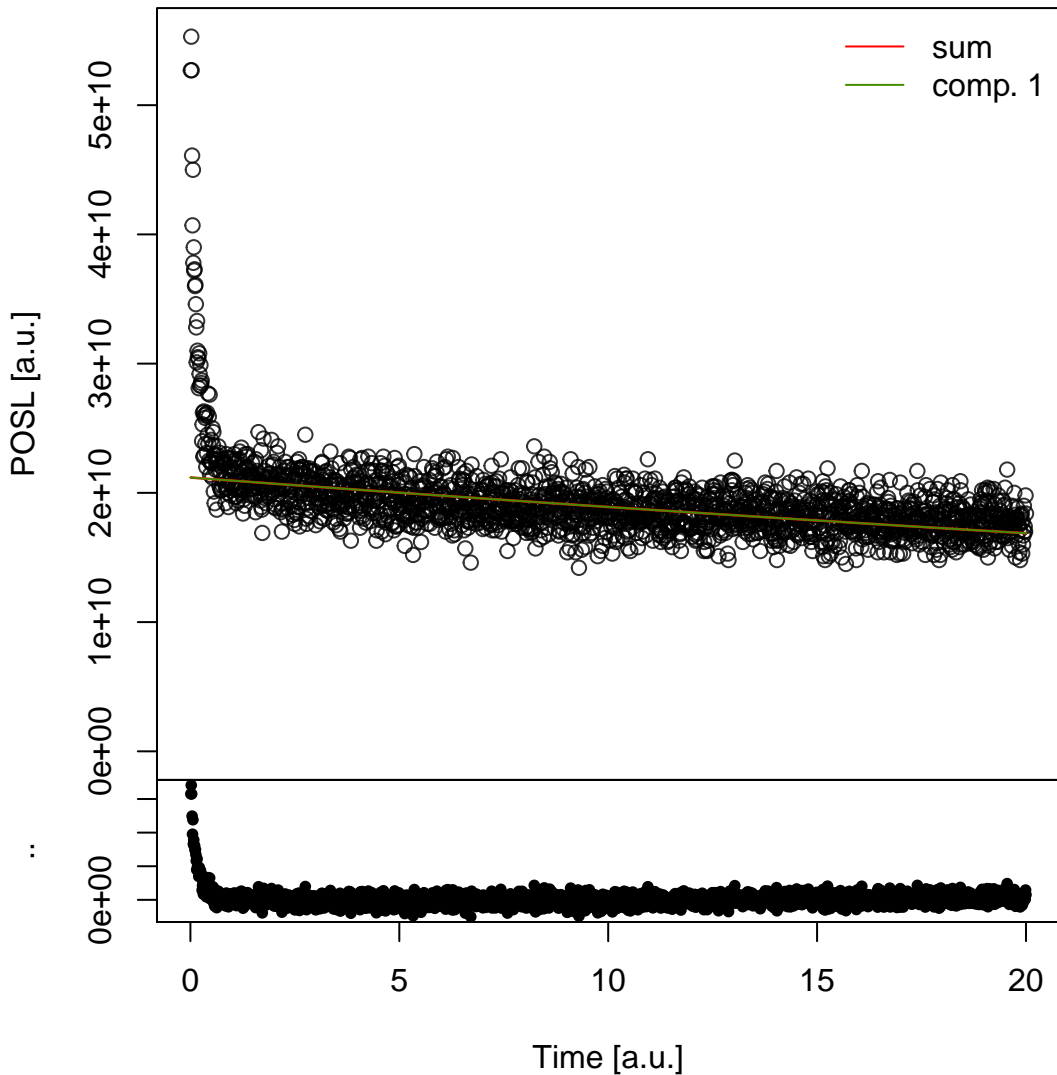
Default



Component contribution to sum curve



OSL Lifetimes

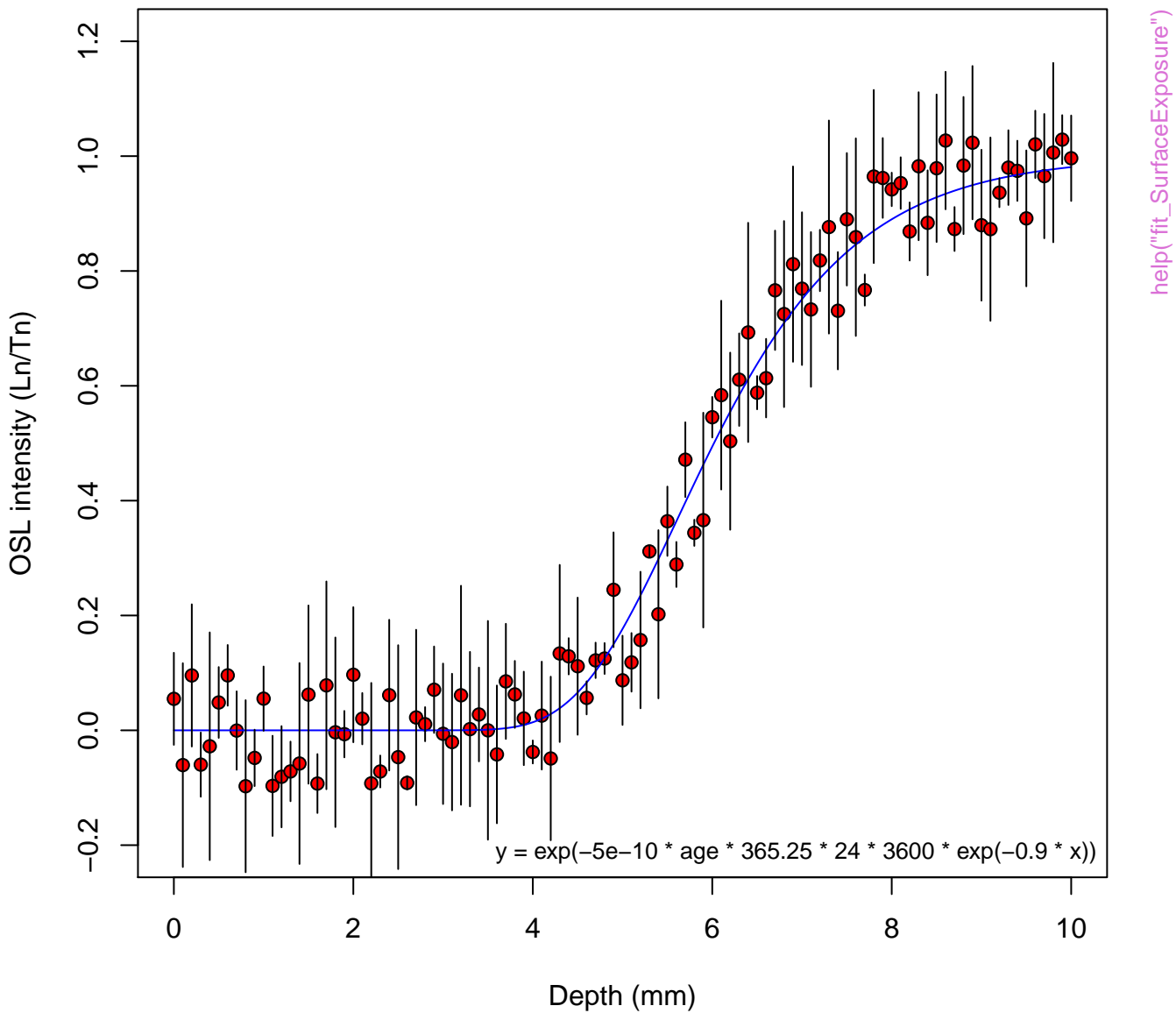


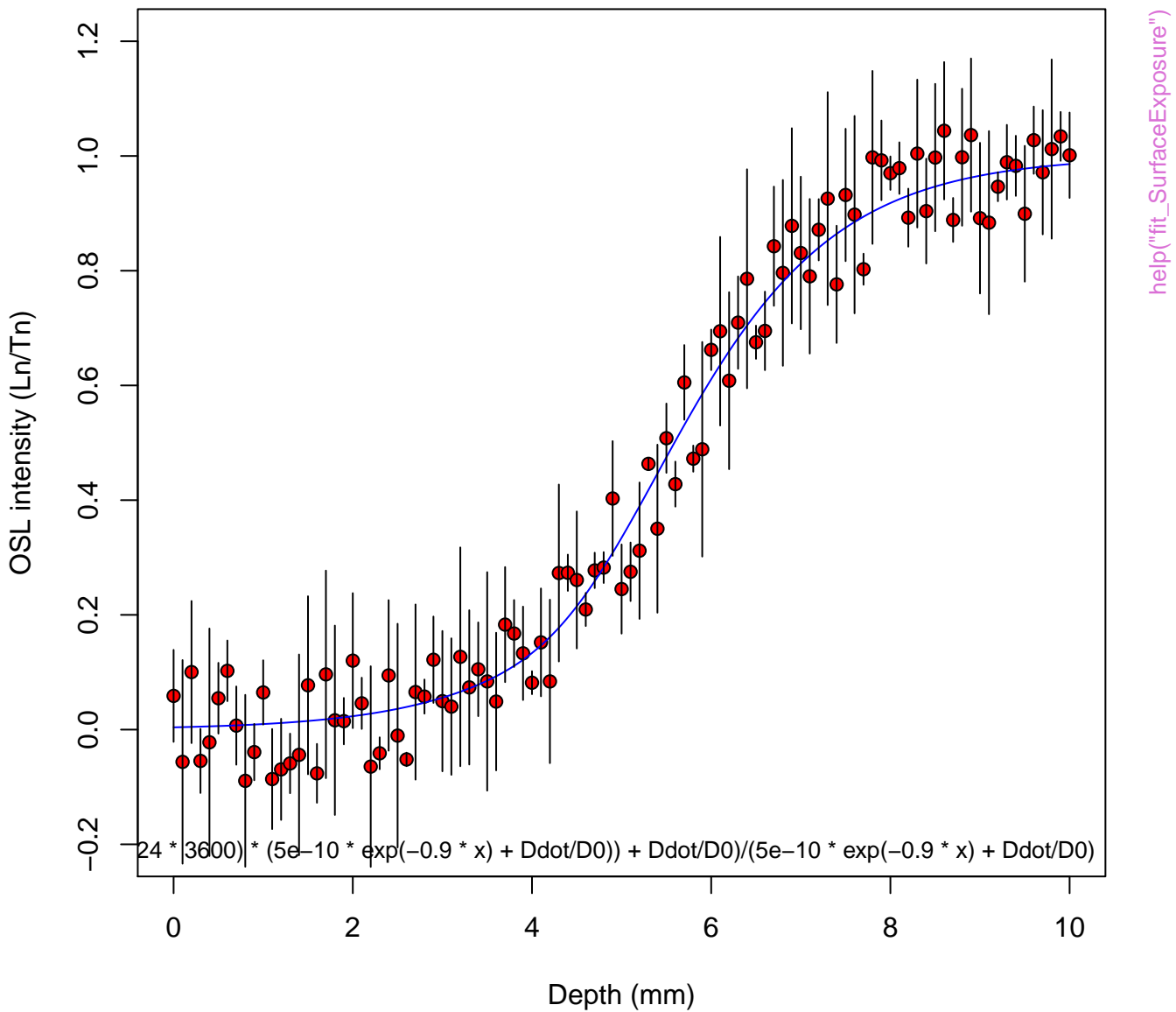
help("fit_OSLLifeTimes")

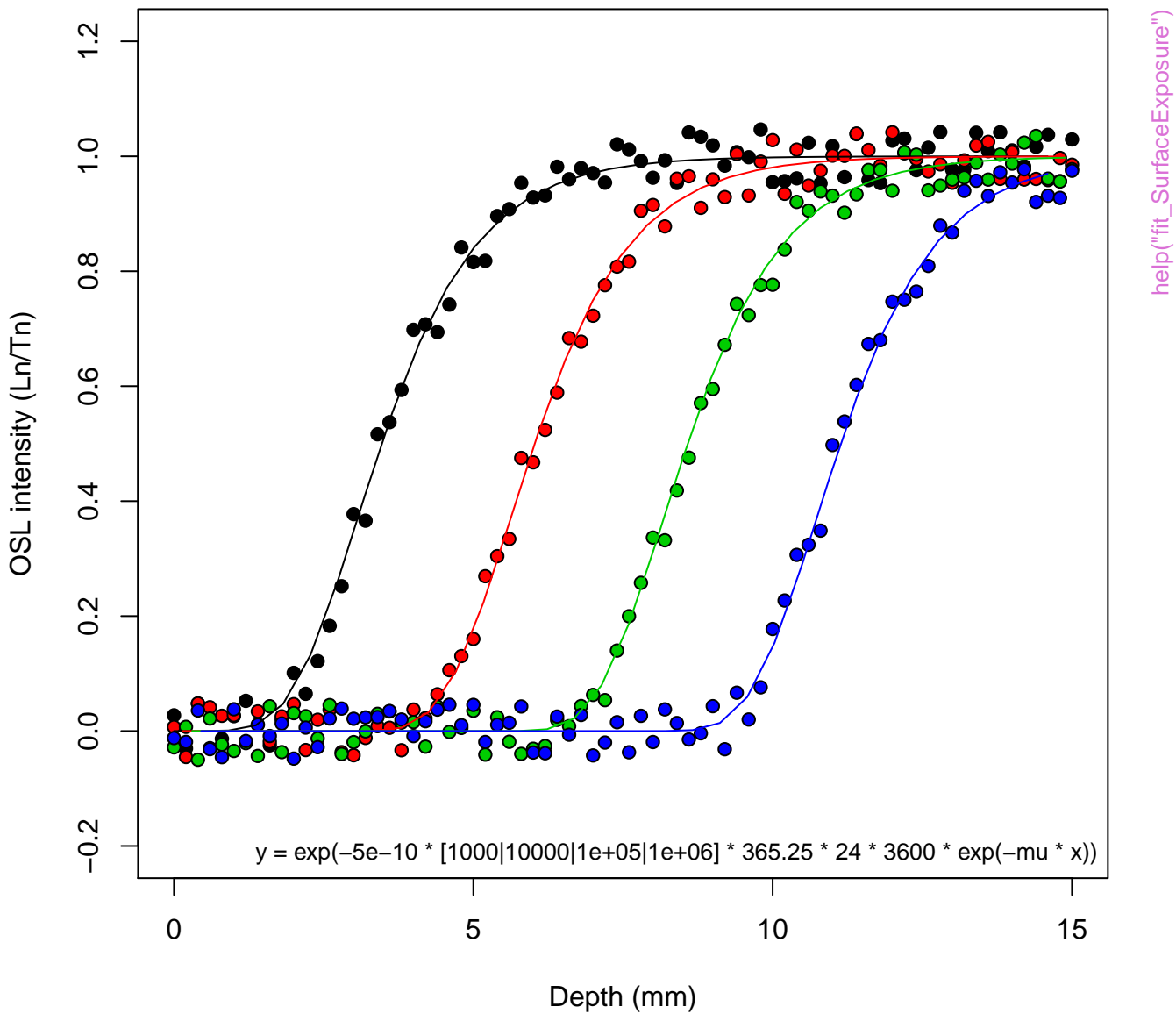
help("fit_OSLLifeTimes")

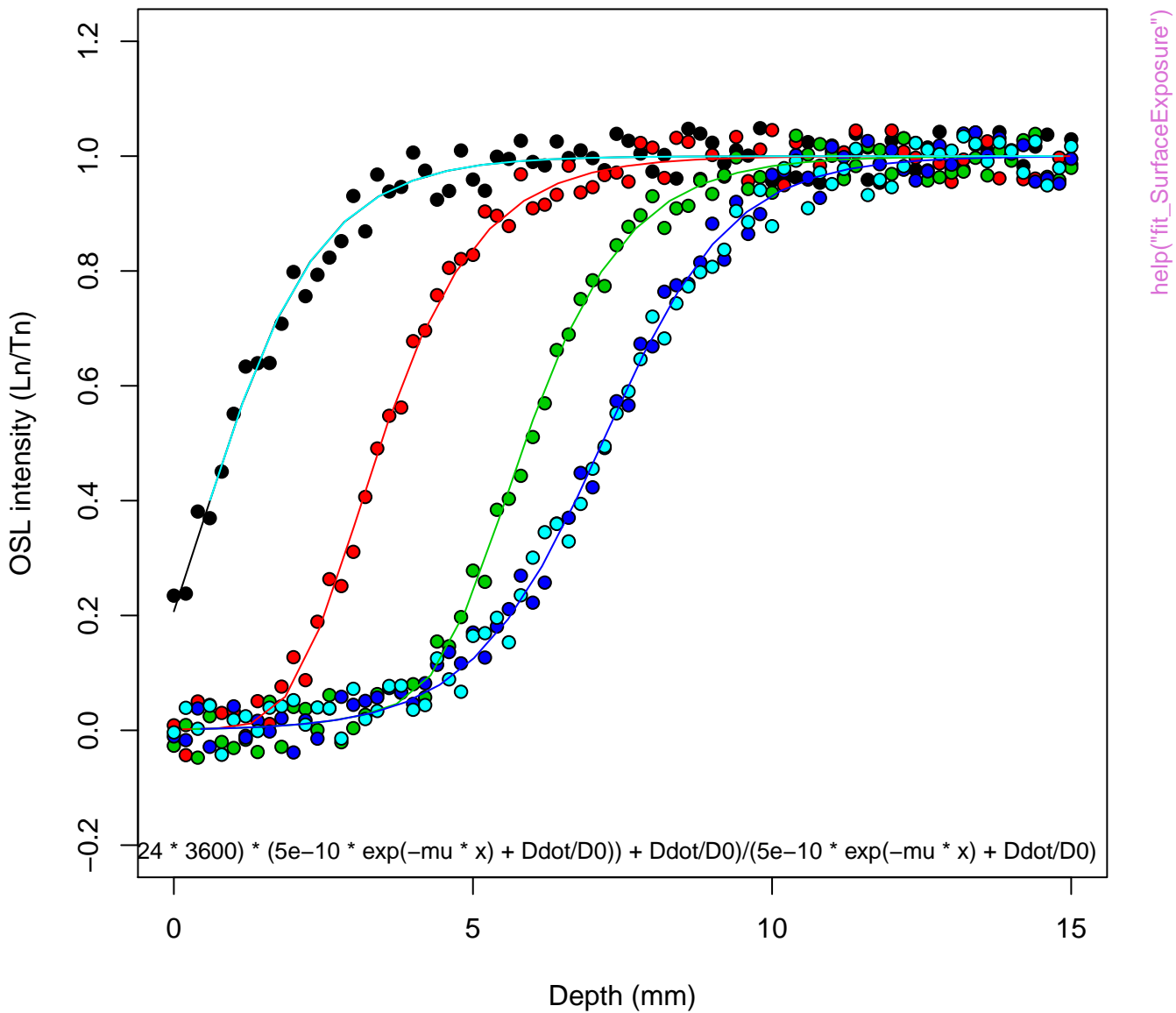
help("fit_OSLLifeTimes")

help("fit_OSLLifeTimes")



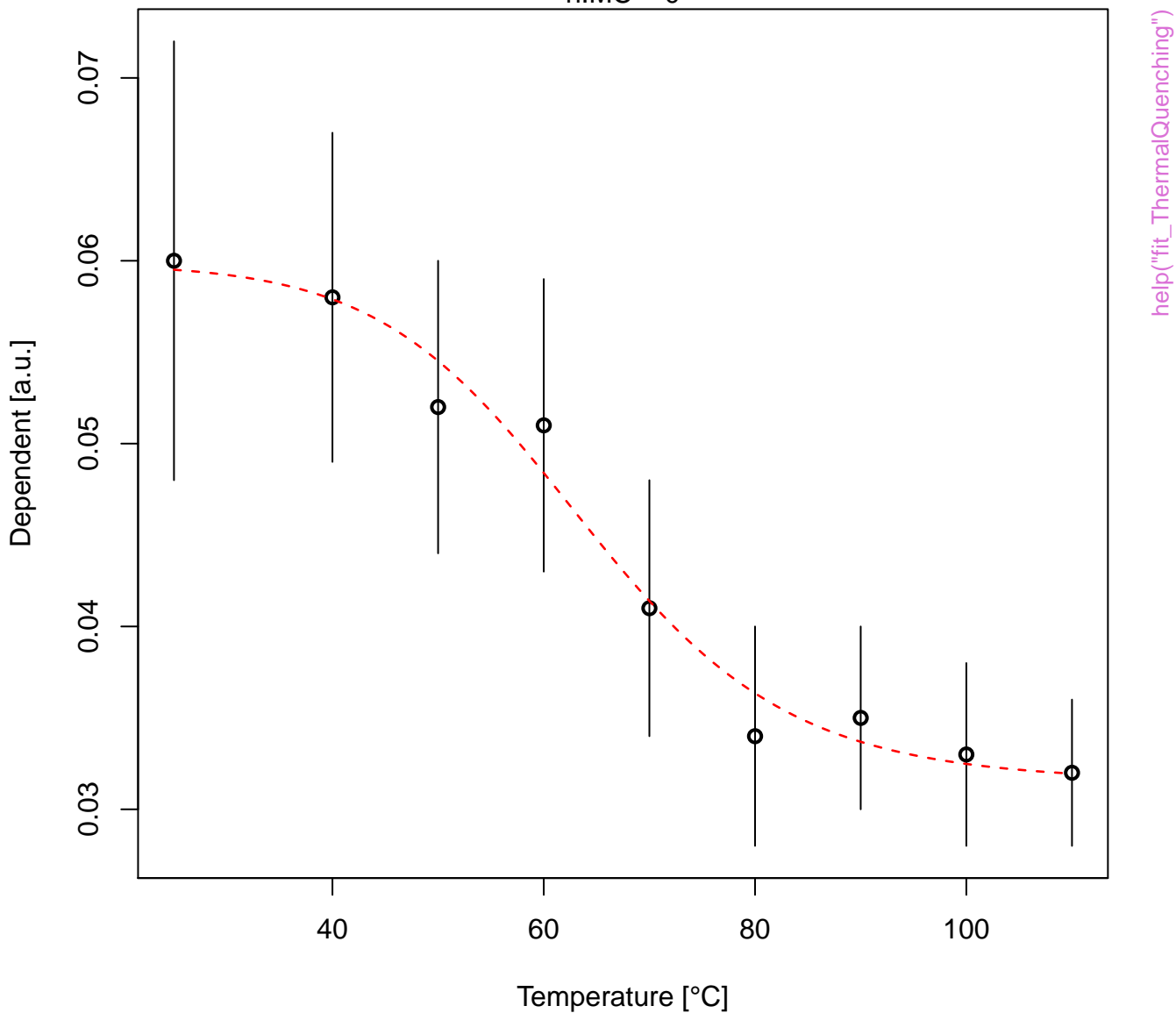






Thermal quenching

n.MC = 0

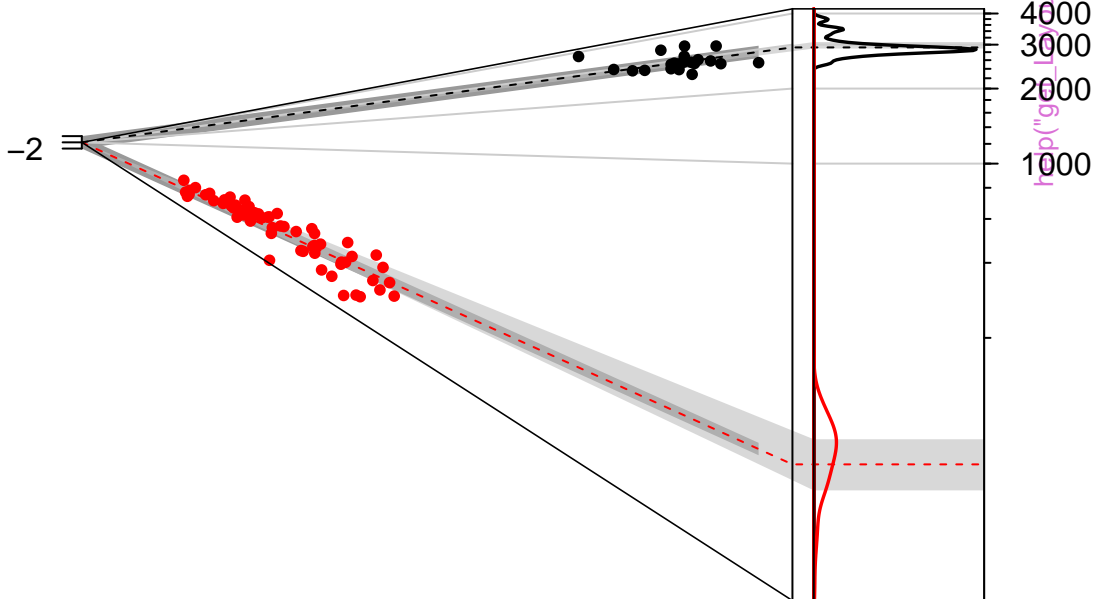


D_e distribution

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

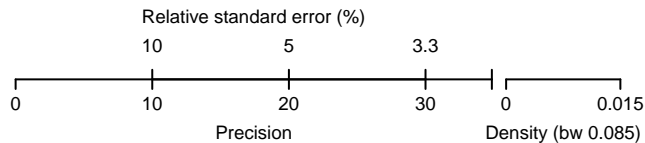
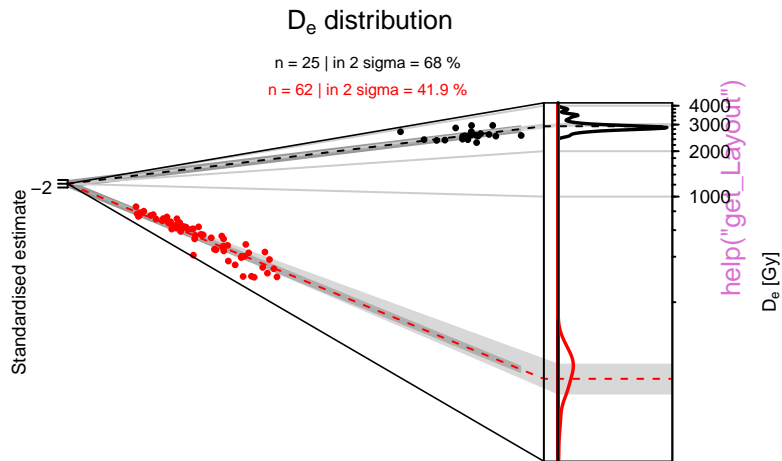
30

0 0.015

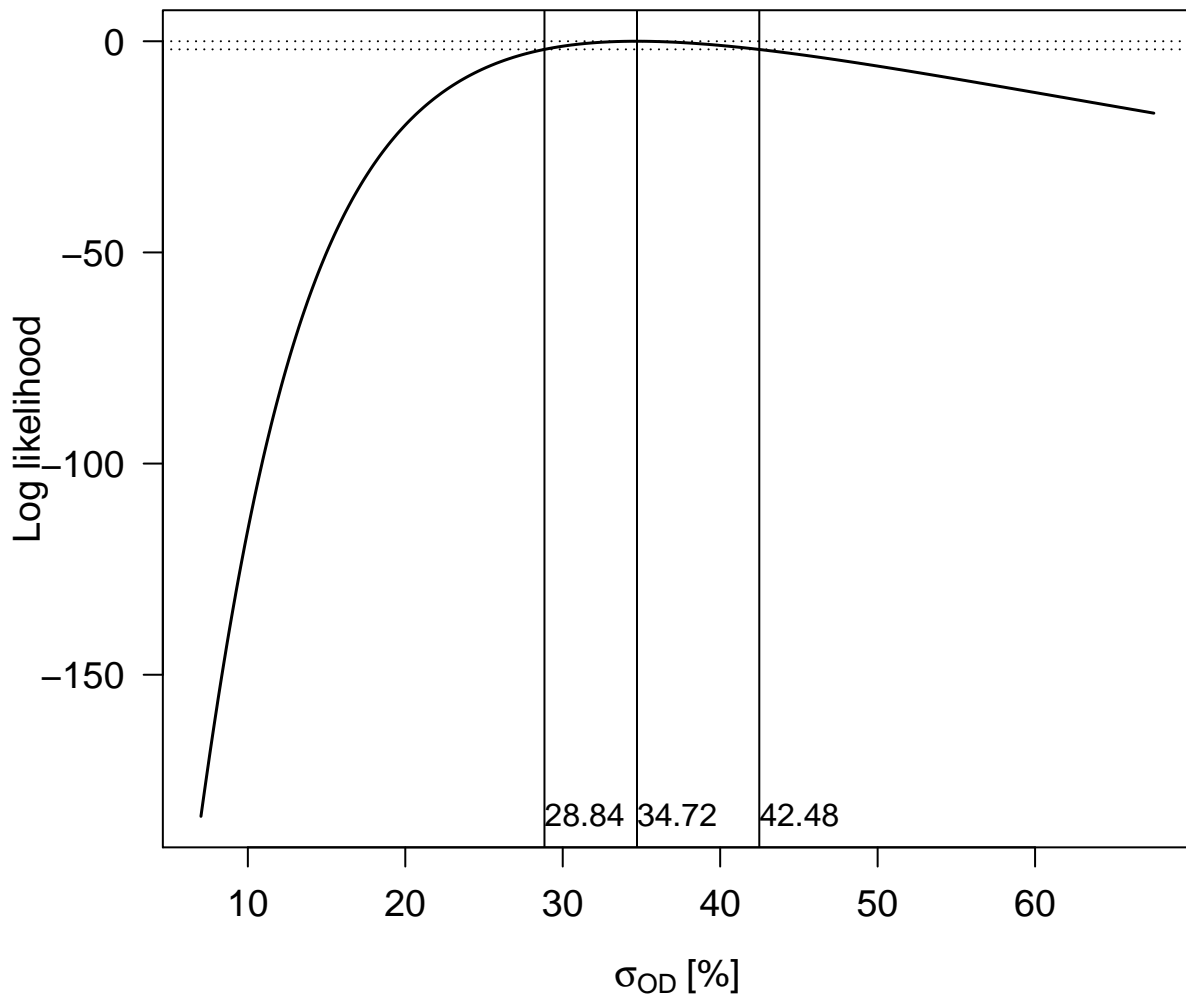
Precision

Density (bw 0.085)

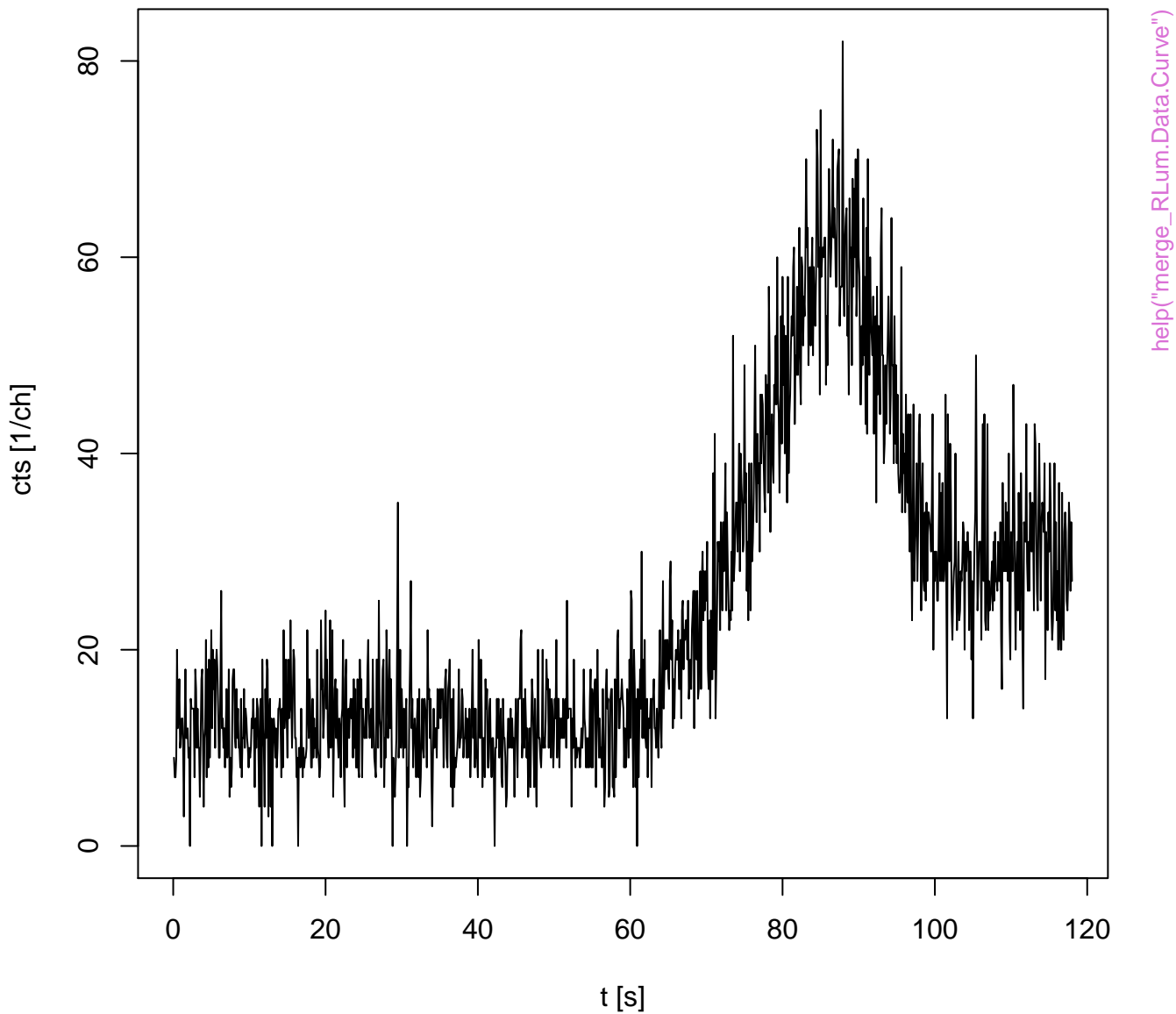
help("get_Layout")



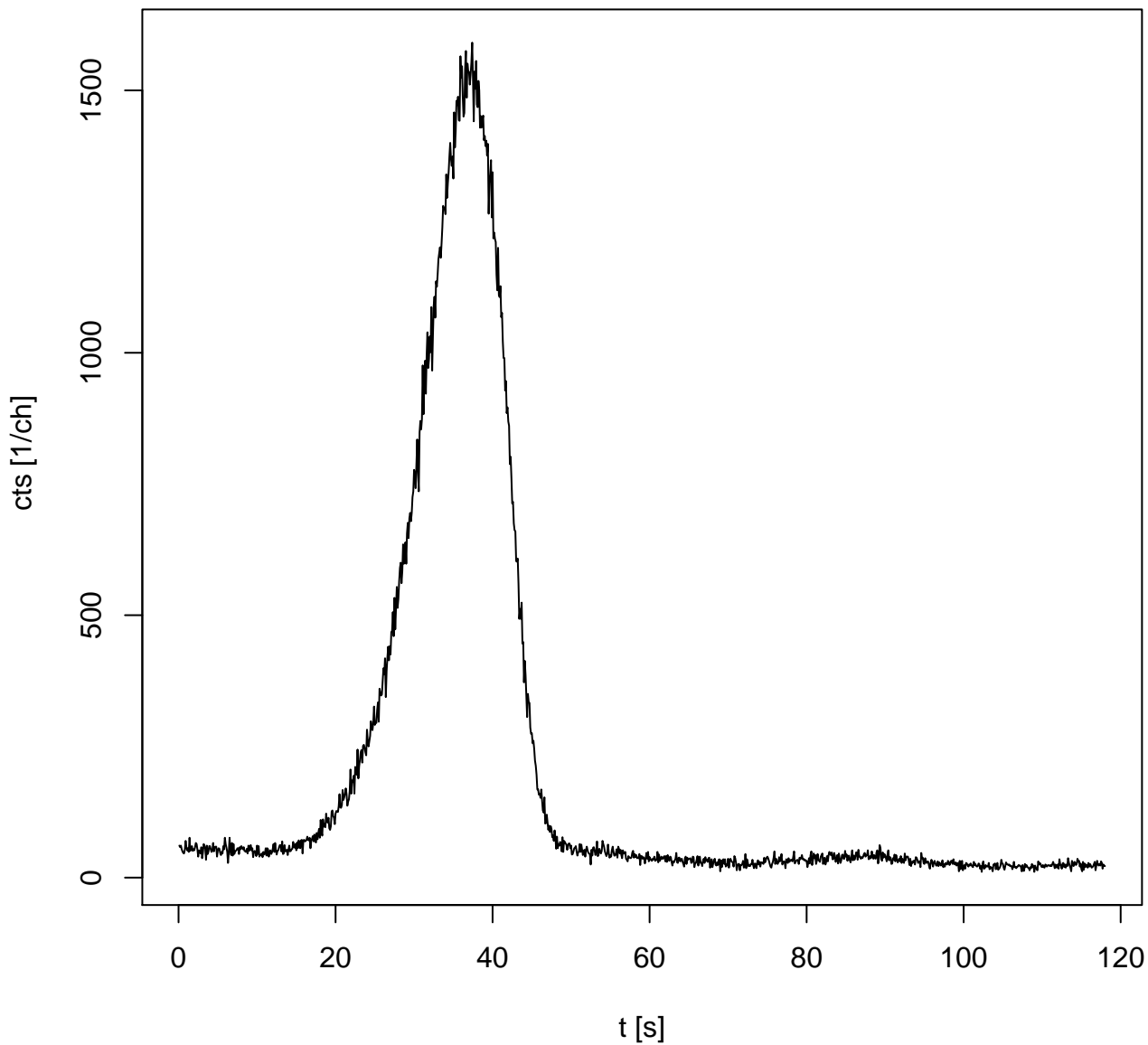
Profile log likelihood for σ_{OD}



TL (UUVIS)

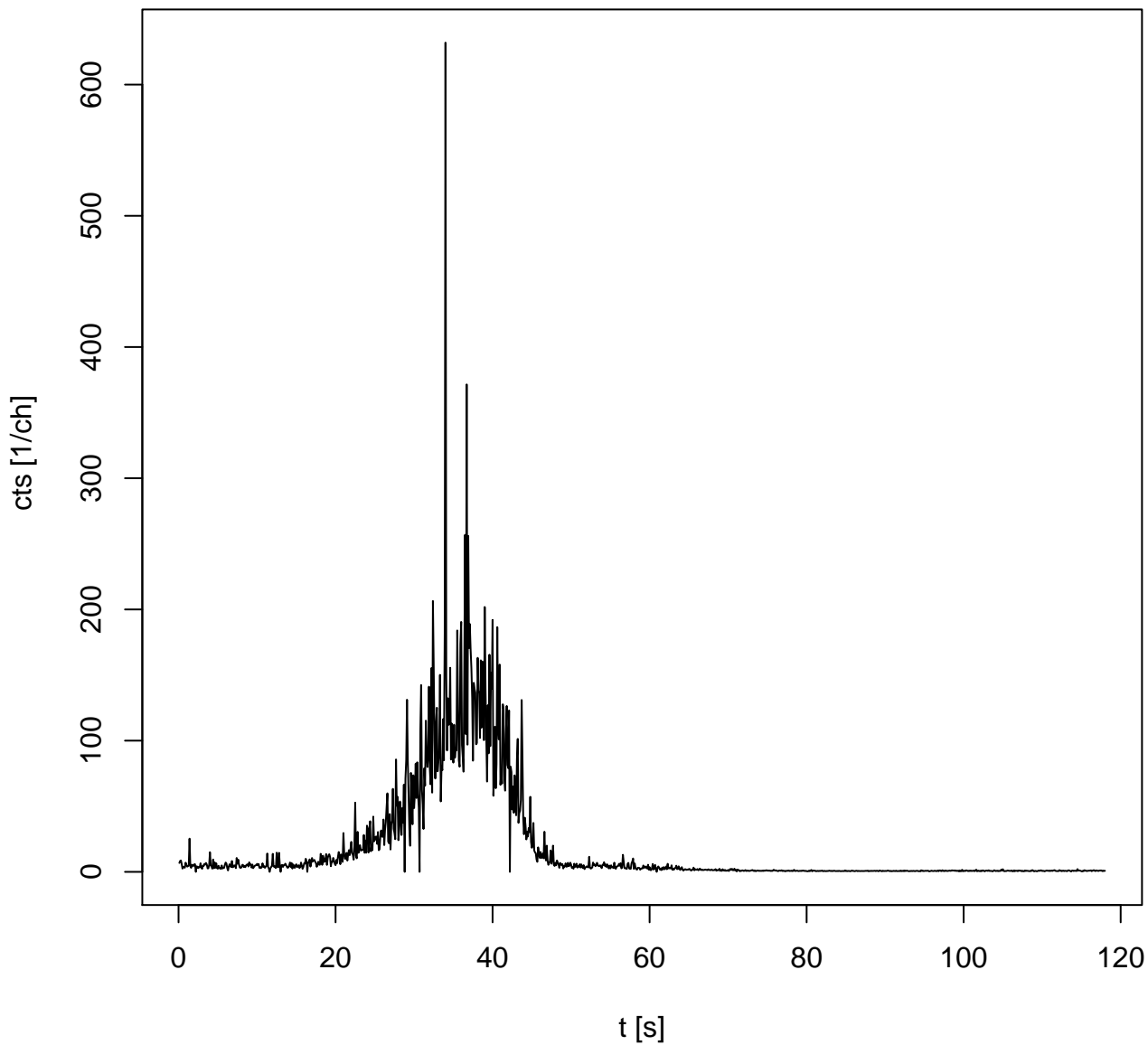


TL (UVVIS)



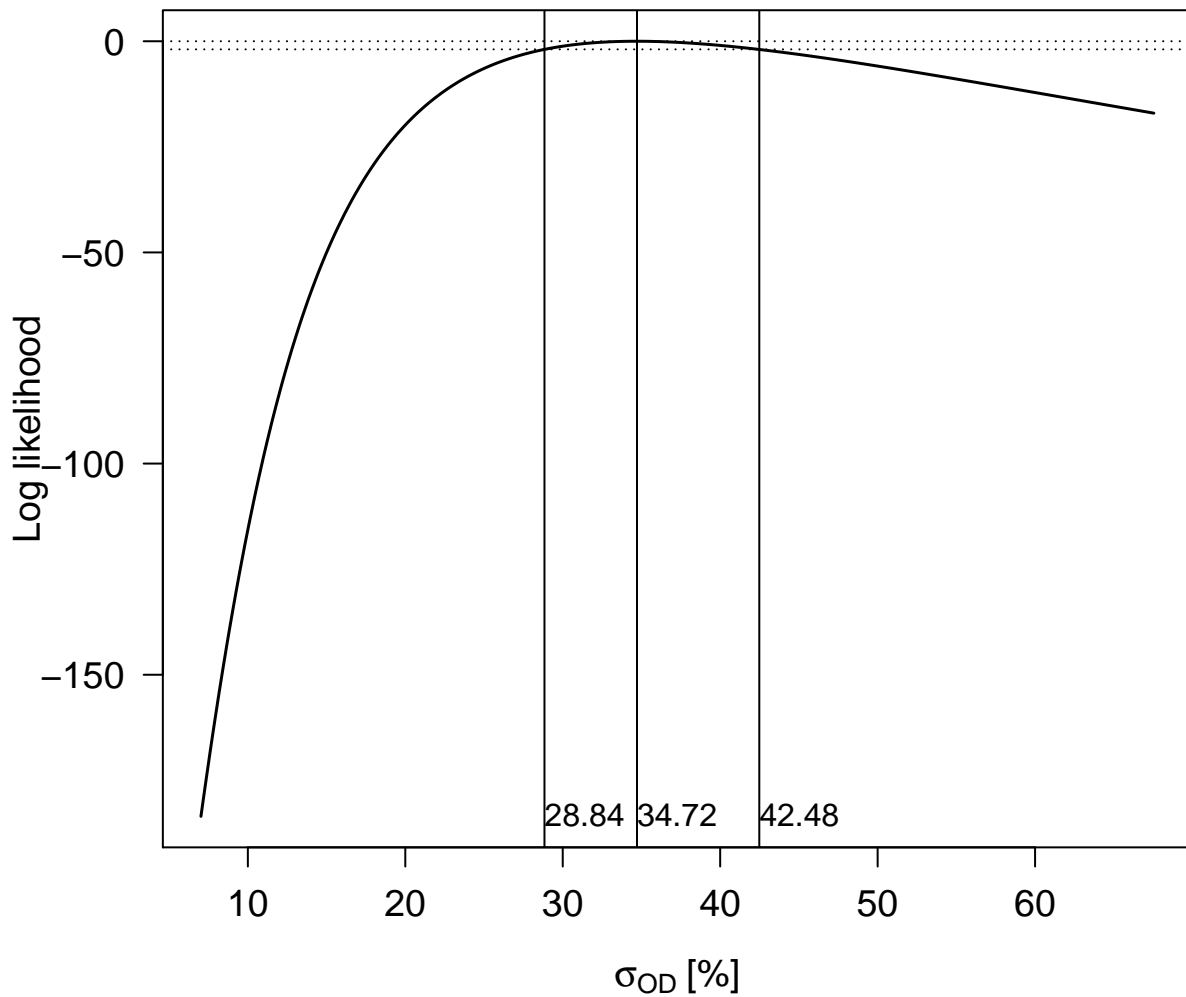
help("merge_RLum.Data.Curve")

TL (UVVIS)

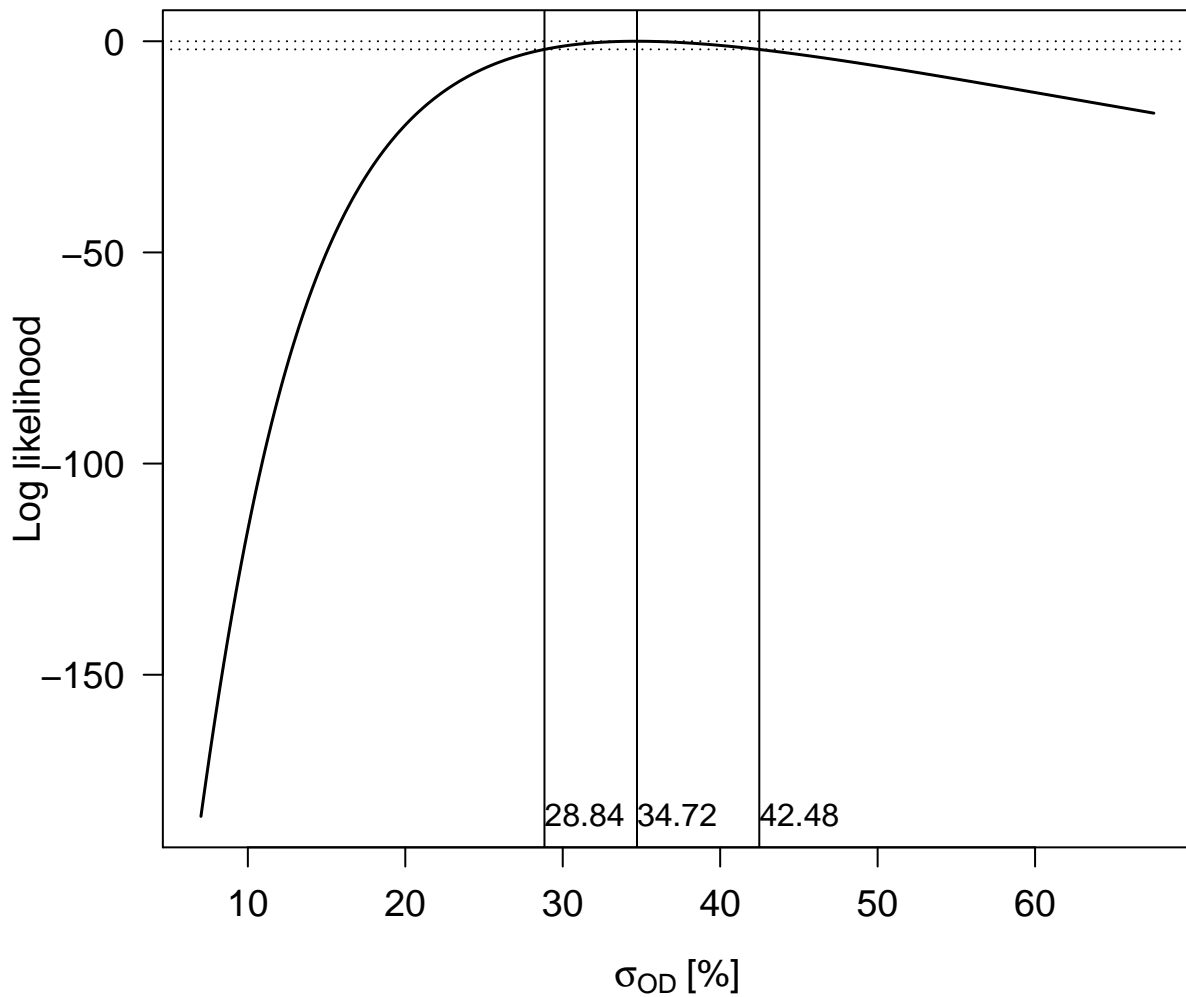


help("merge_RLum.Data.Curve")

Profile log likelihood for σ_{OD}



Profile log likelihood for σ_{OD}



D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



D_e [Gy]

Relative standard error (%)

20

10

6.7

0

5

10

15

0.016

Precision

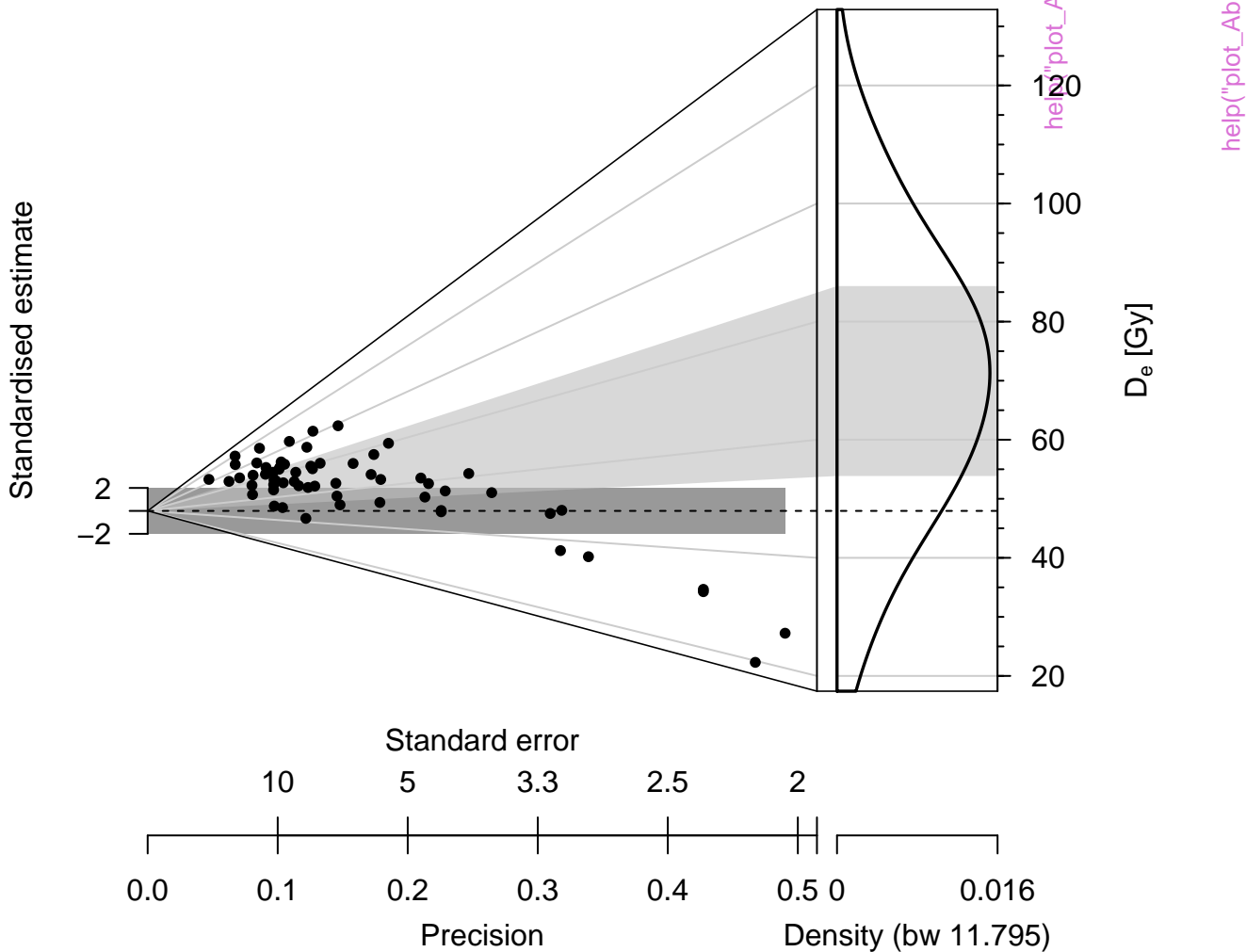
Density (bw 0.15)

help("plot_AbanicoPlot")

help("plot_AbanicoPlot")

D_e distribution

n = 62 | in 2 sigma = 24.2 %



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

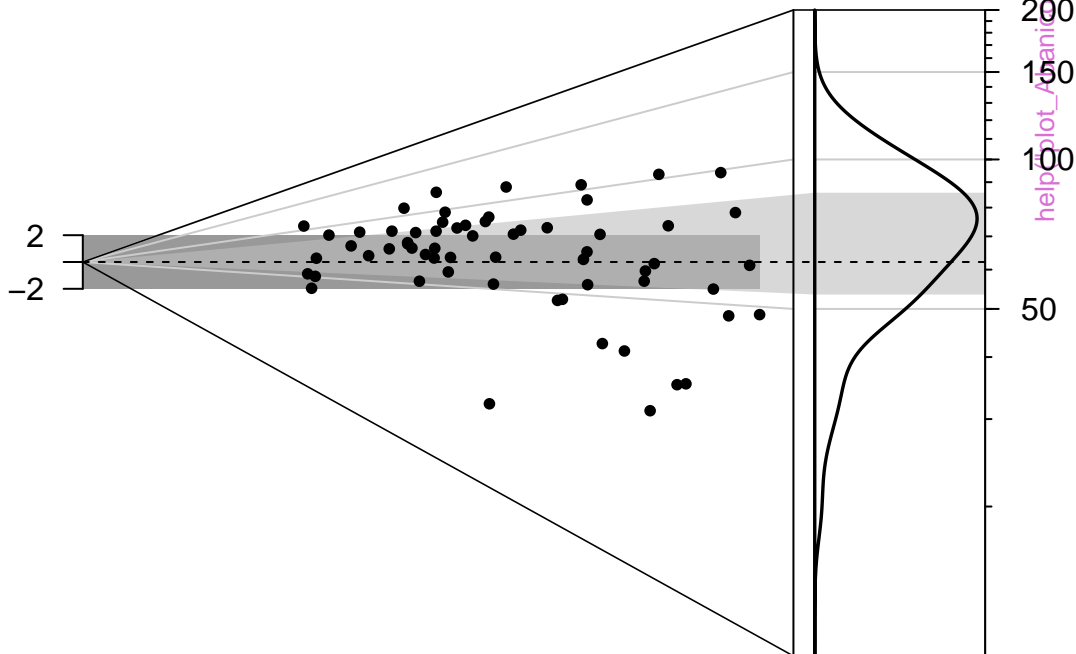
Precision

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

0.016

Precision

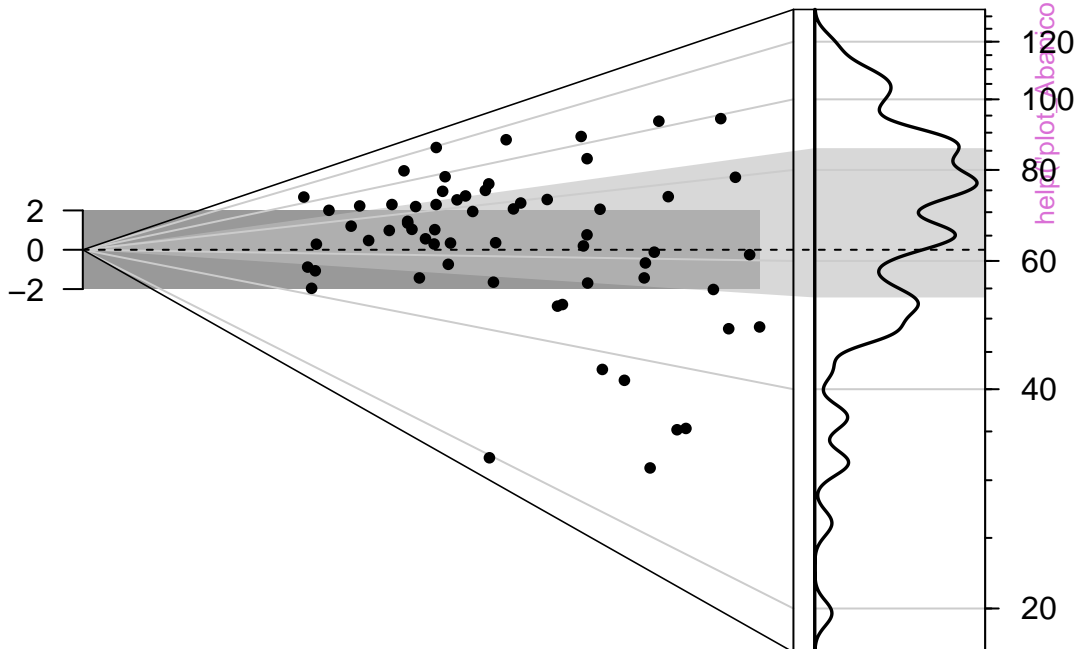
Density (bw 0.15)

help("plot_AbanicoPlot")

D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate



D_e [Gy]

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

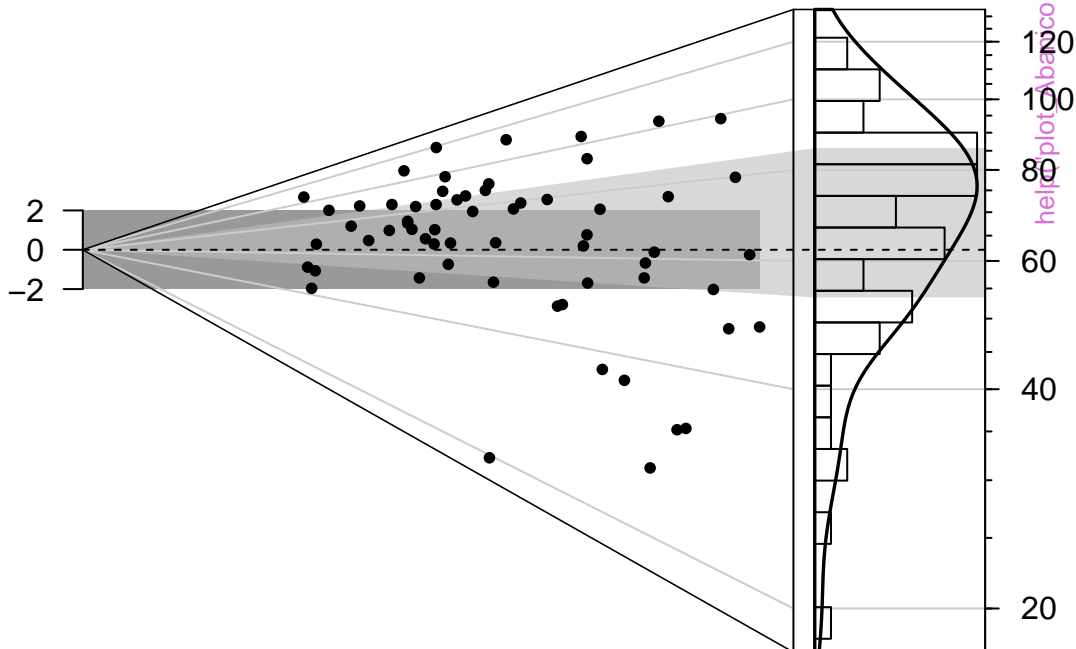
15

Precision

D_e distribution

n = 62 | in 2 sigma = 41.9 %

Standardised estimate

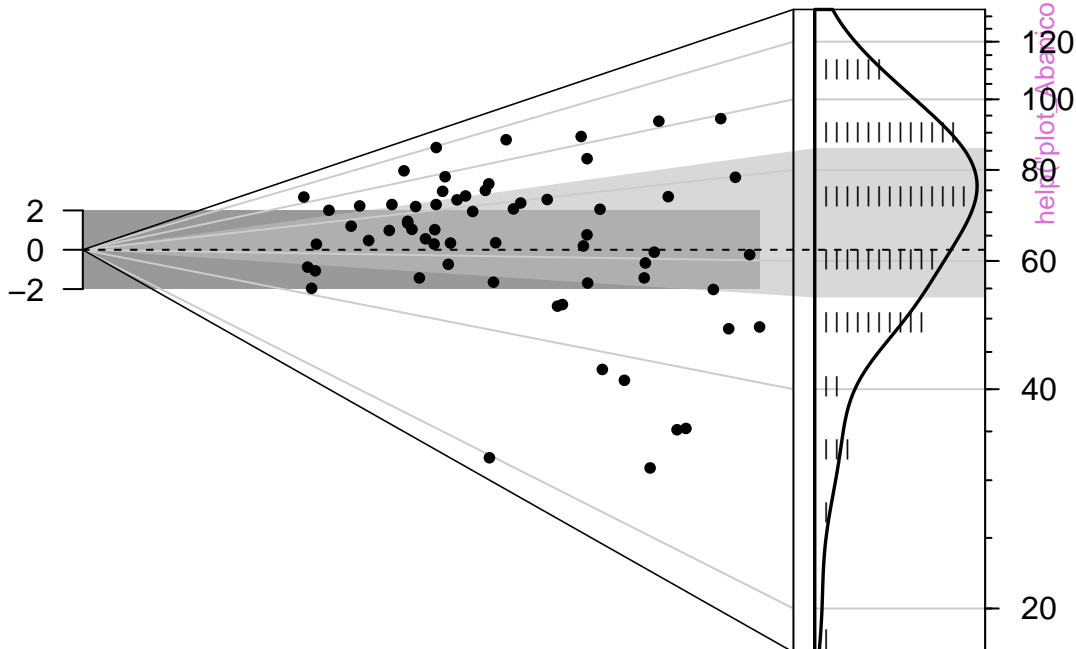


help("plot_AbanicoPlot")

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

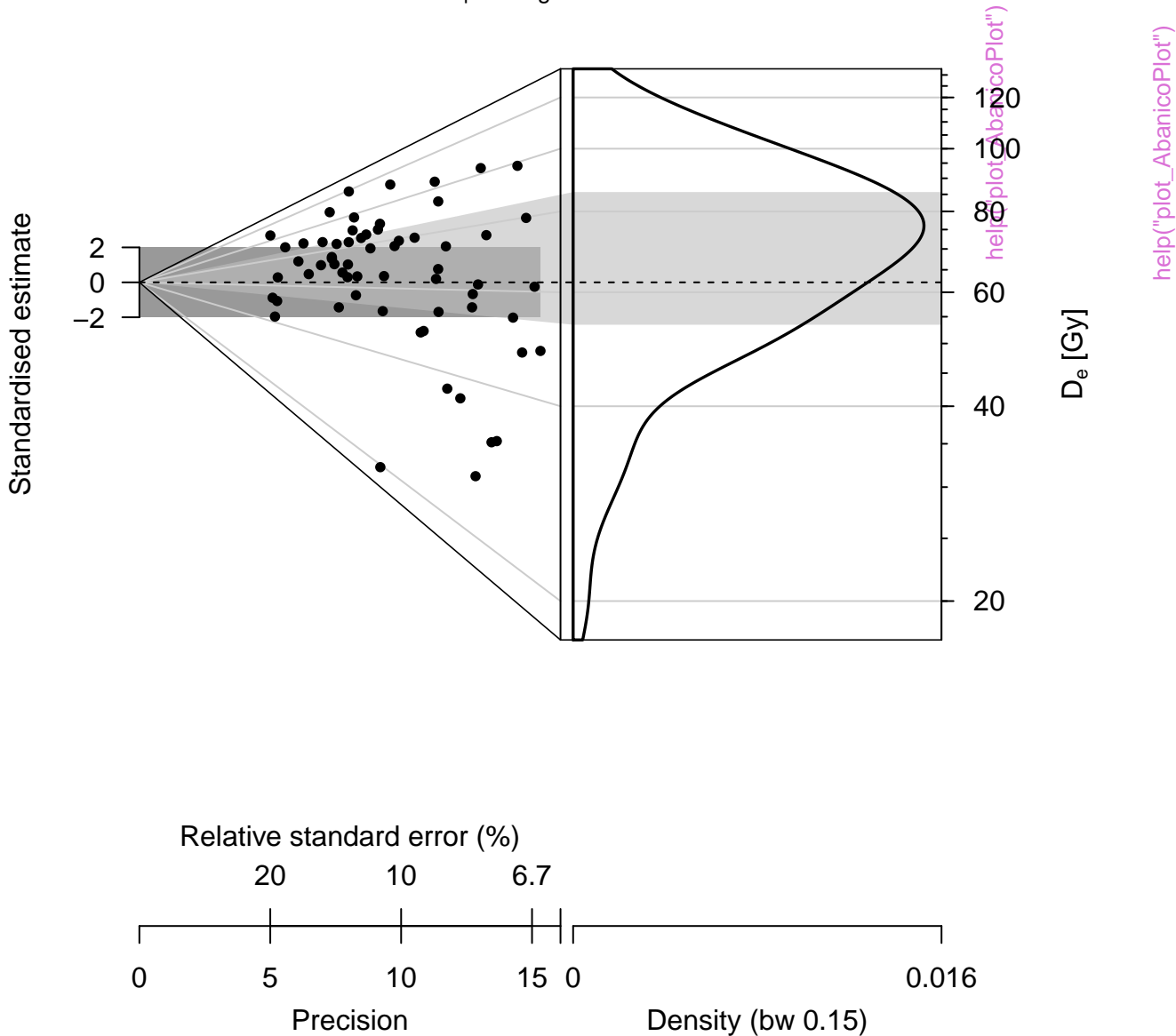
Precision

Density (bw 0.15)

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)

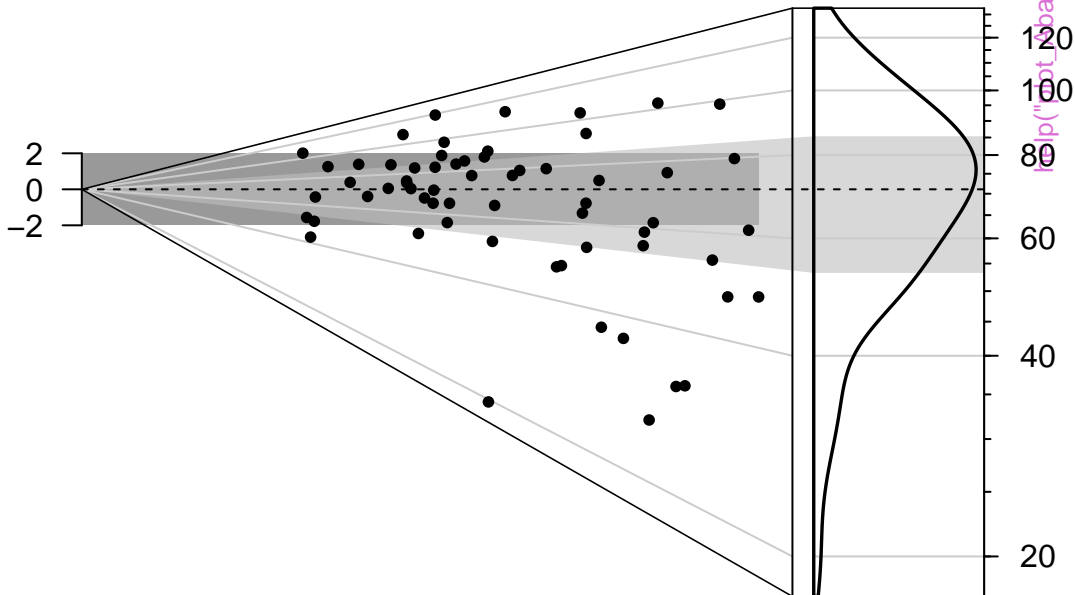
D_e [Gy]

help("plot_AbanicoPlot")

D_e distribution

n = 62 | in 2 sigma = 54.8 %

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 %

Standardised estimate

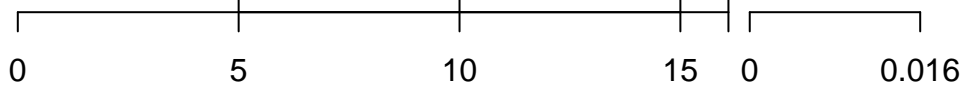


Relative standard error (%)

20

10

6.7



Precision

Density (bw 0.15)

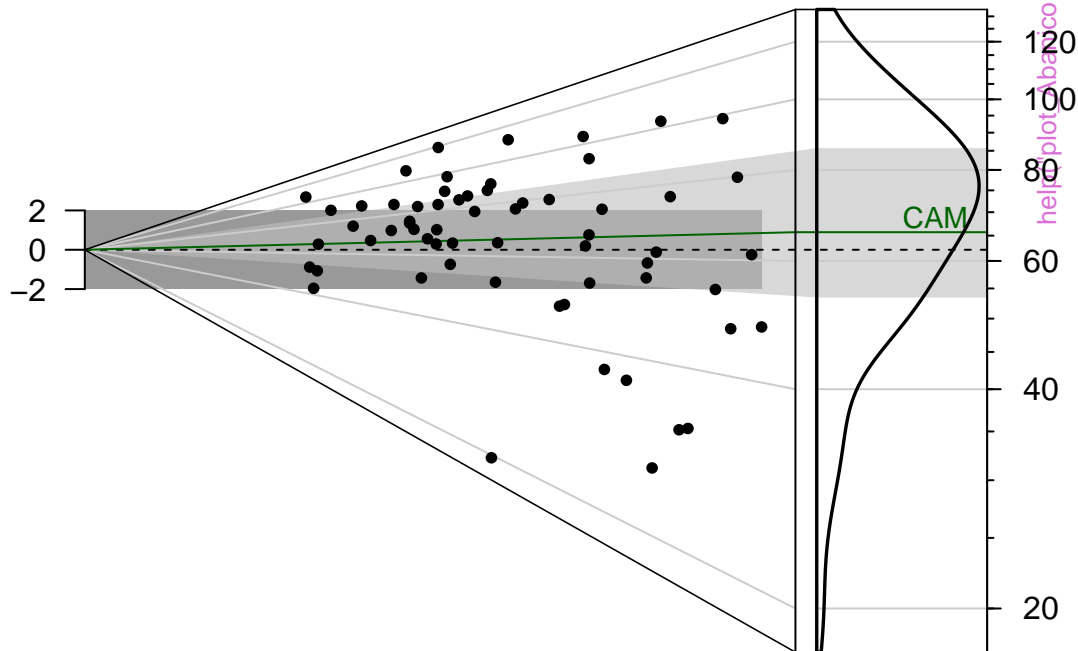
D_e [Gy]

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)

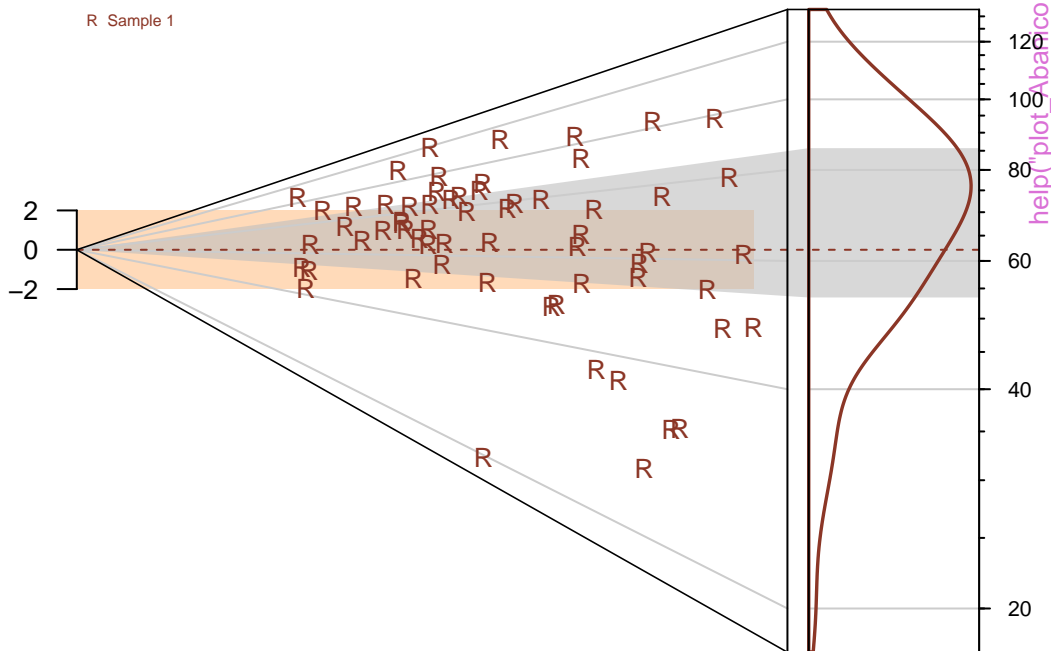
help("plot_AbanicoPlot")

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

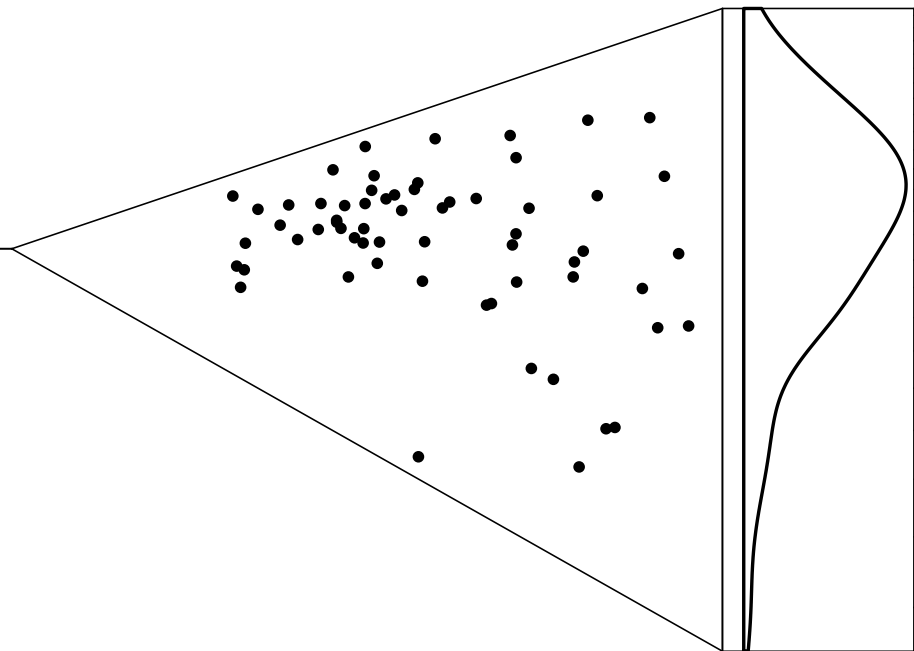
0.016

Precision

Density (bw 0.15)

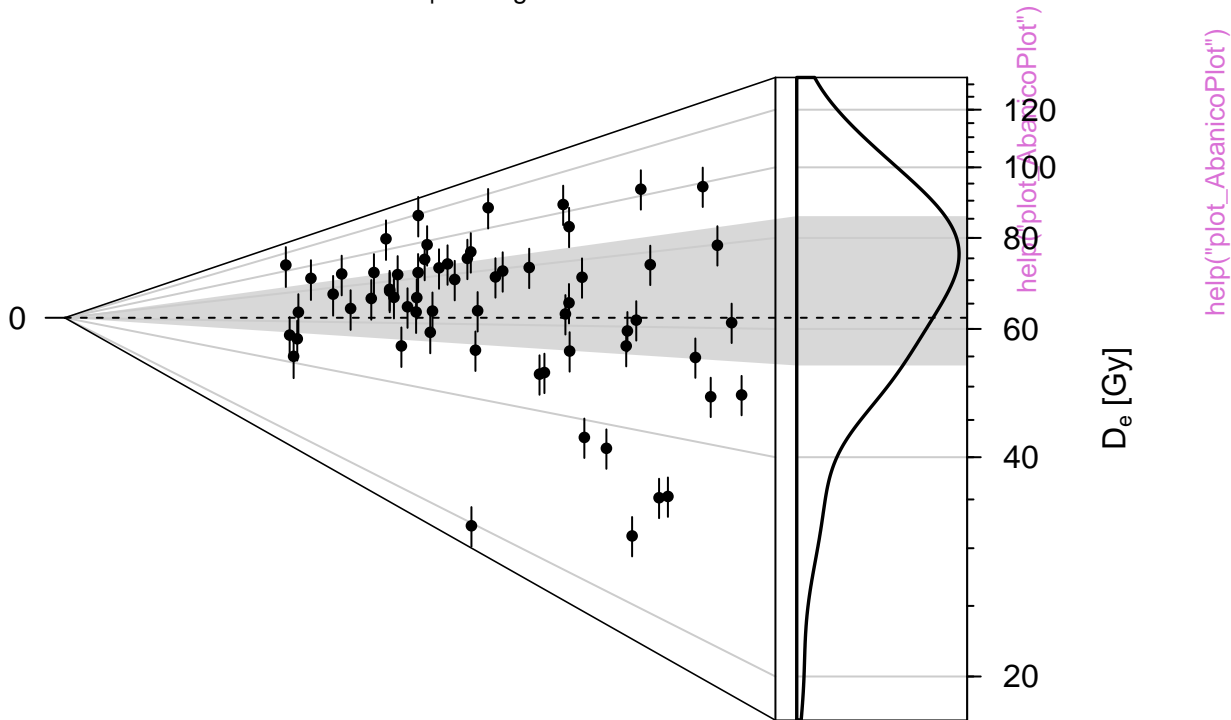
help("plot_AbanicoPlot")

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

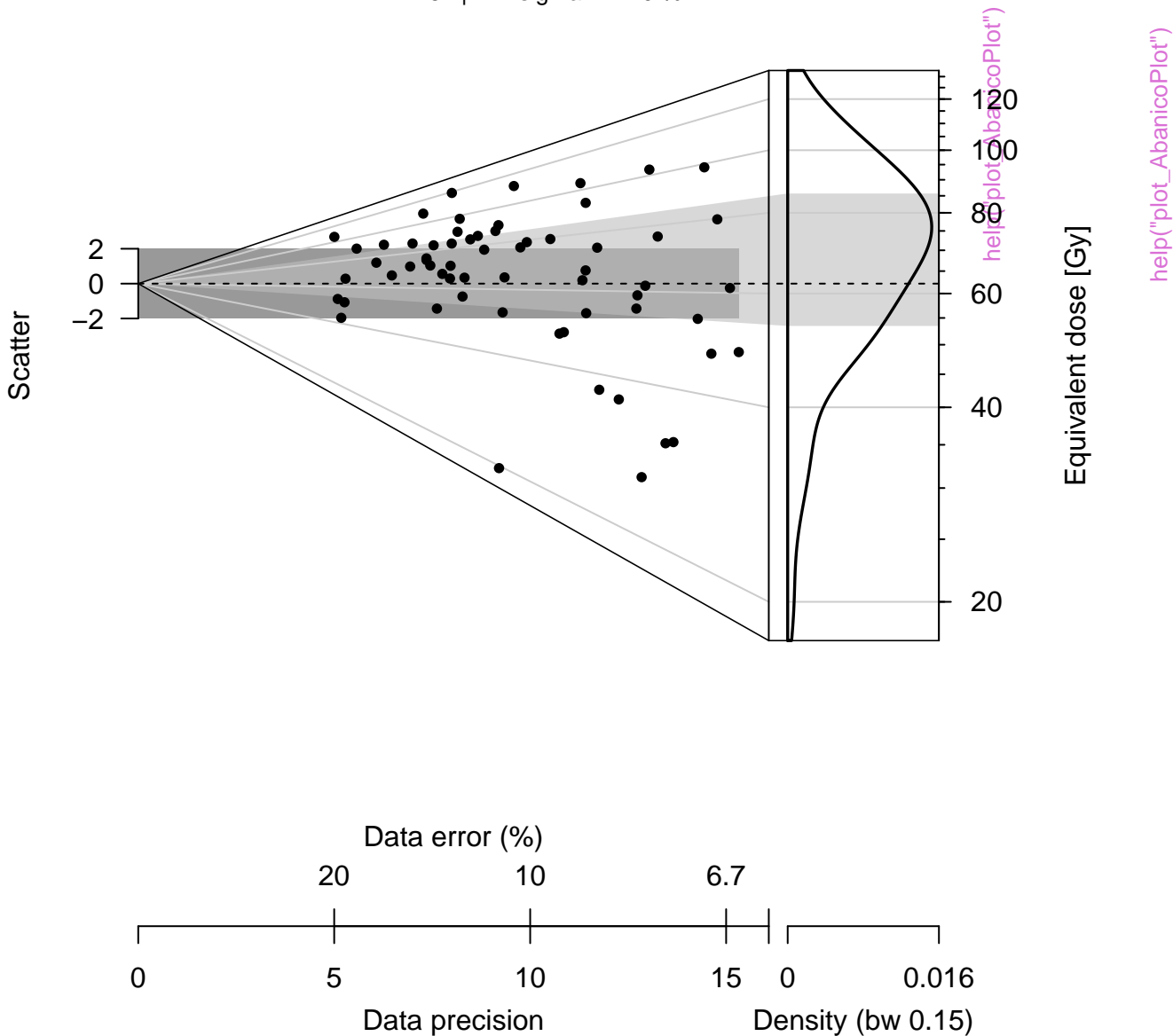
0.016

Precision

Density (bw 0.15)

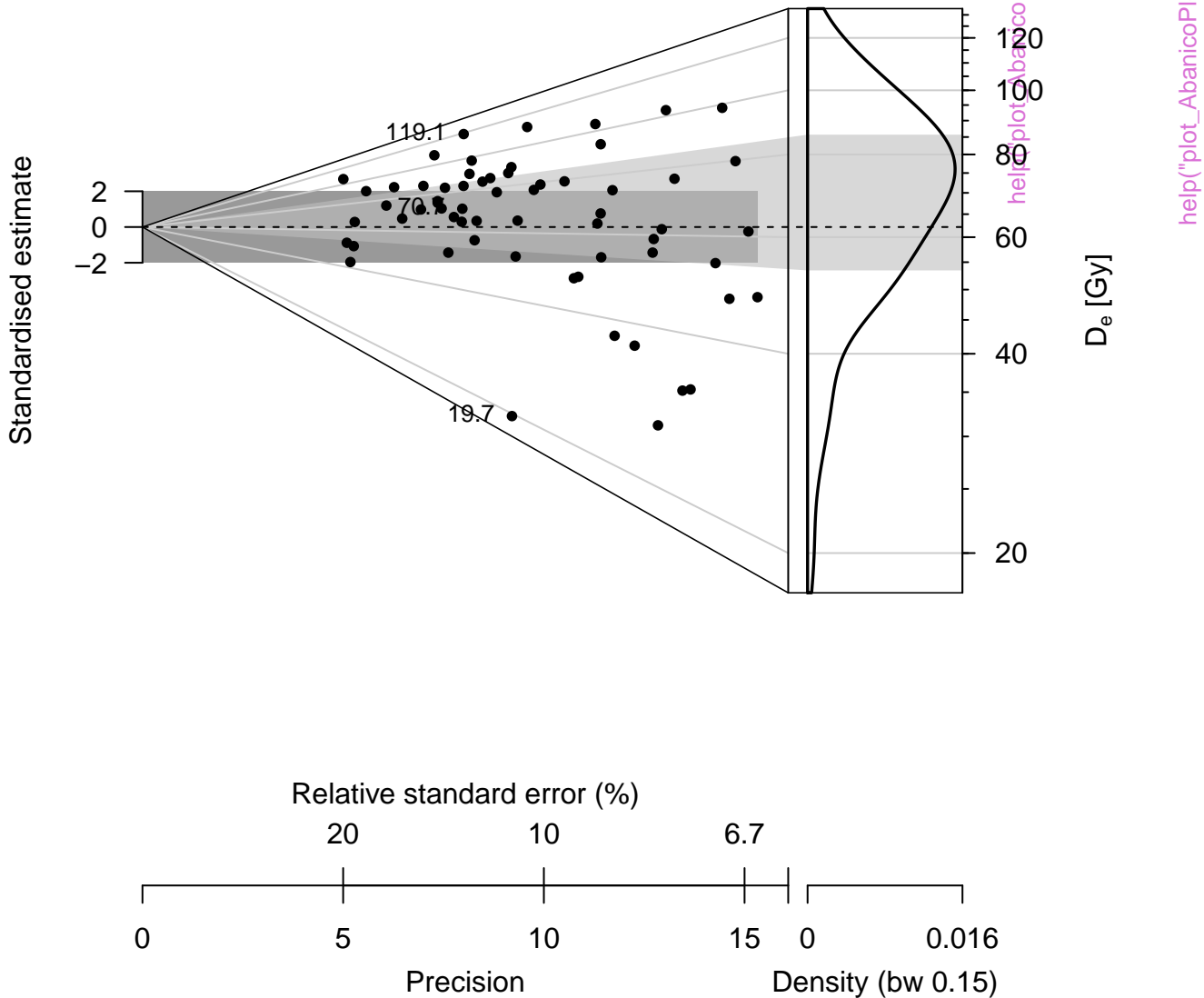
D_e distribution

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

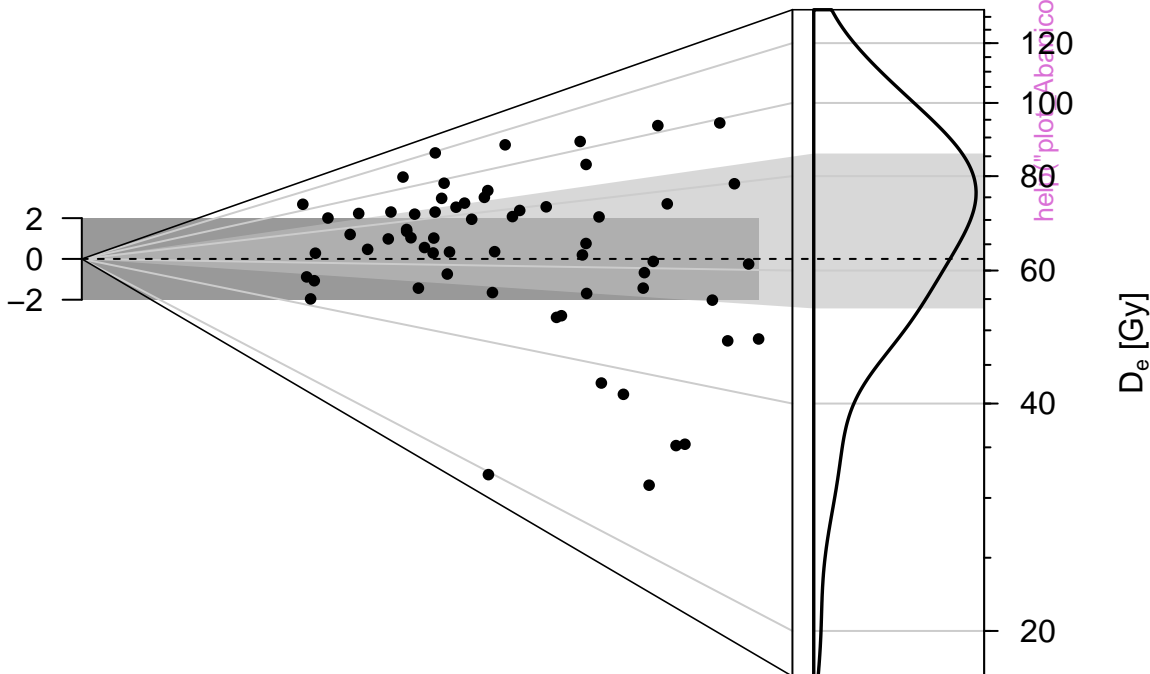
Precision

Density (bw 0.15)

D_e distribution

median = 71.07

Standardised estimate



Relative standard error (%)

20

10

6.7

0

5

10

15

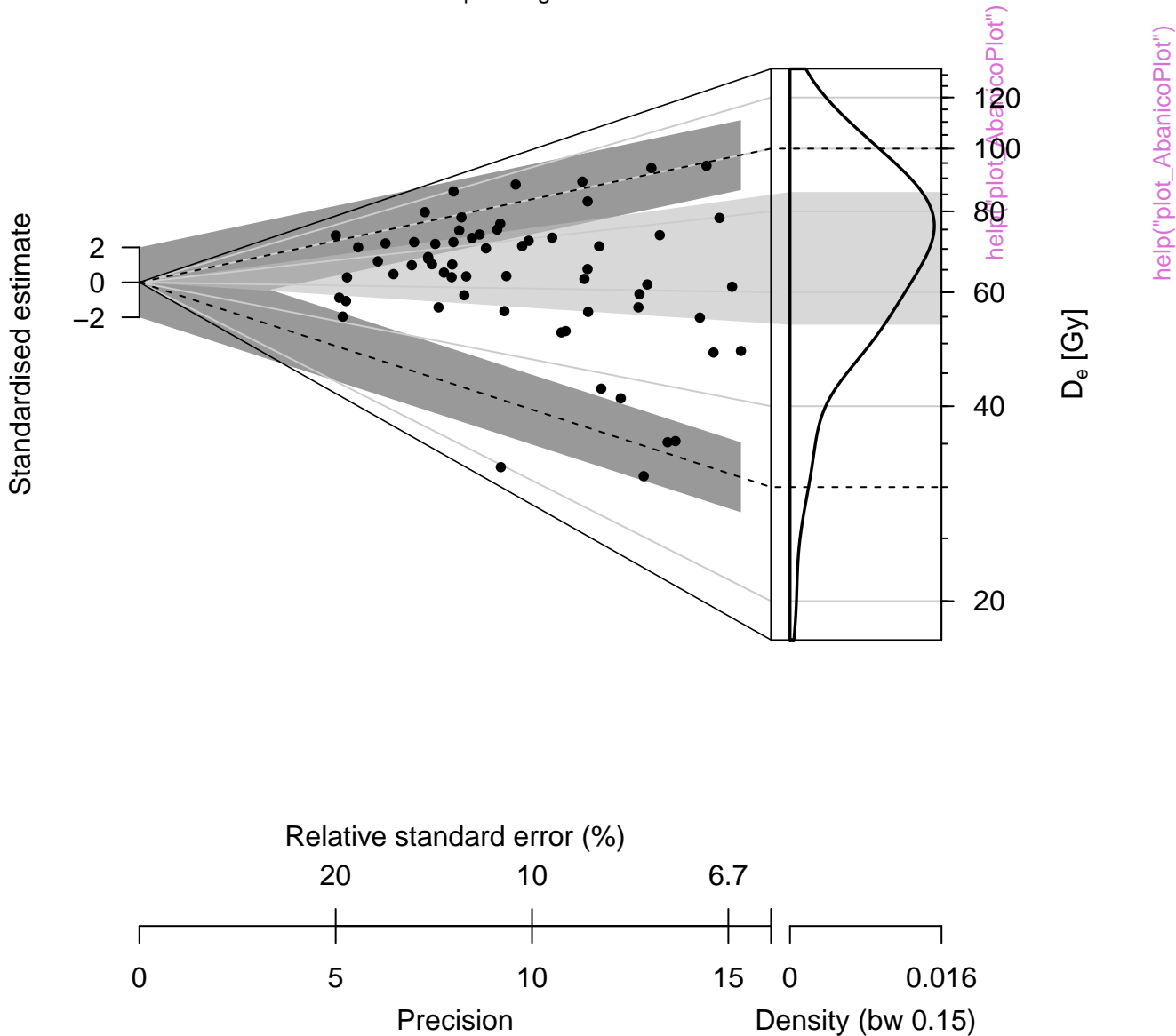
0.016

Precision

Density (bw 0.15)

D_e distribution

n = 62 | in 2 sigma = 41.9 %

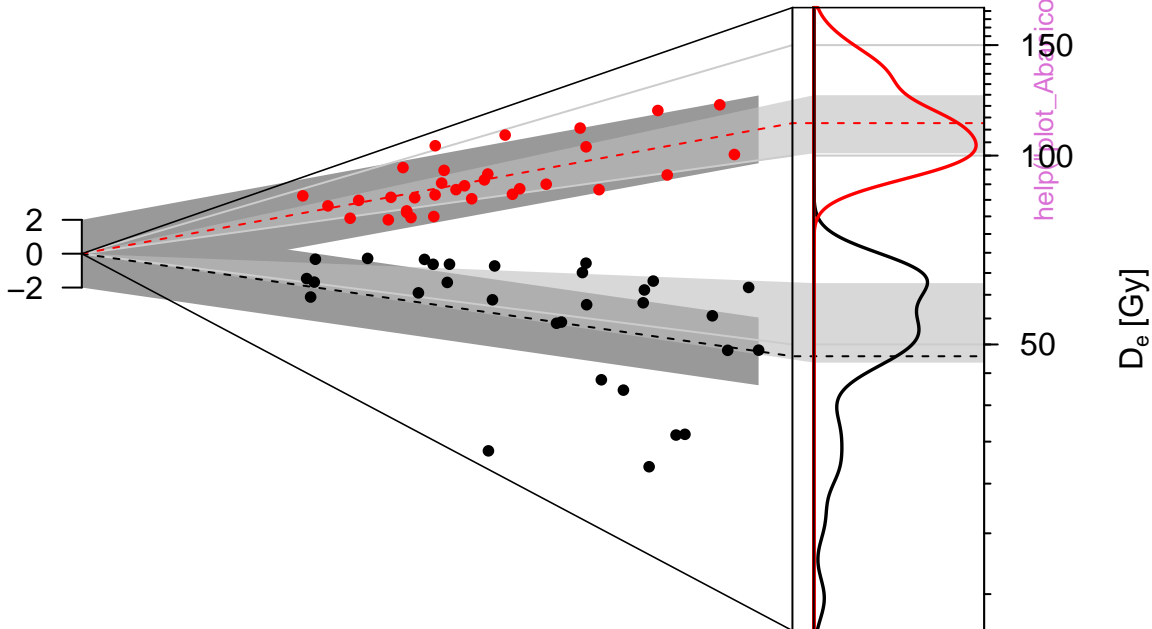


D_e distribution

n = 30 | in 2 sigma = 46.7 %

n = 32 | in 2 sigma = 87.5 %

Standardised estimate



Relative standard error (%)

20

10

6.7

0

5

10

15

0.032

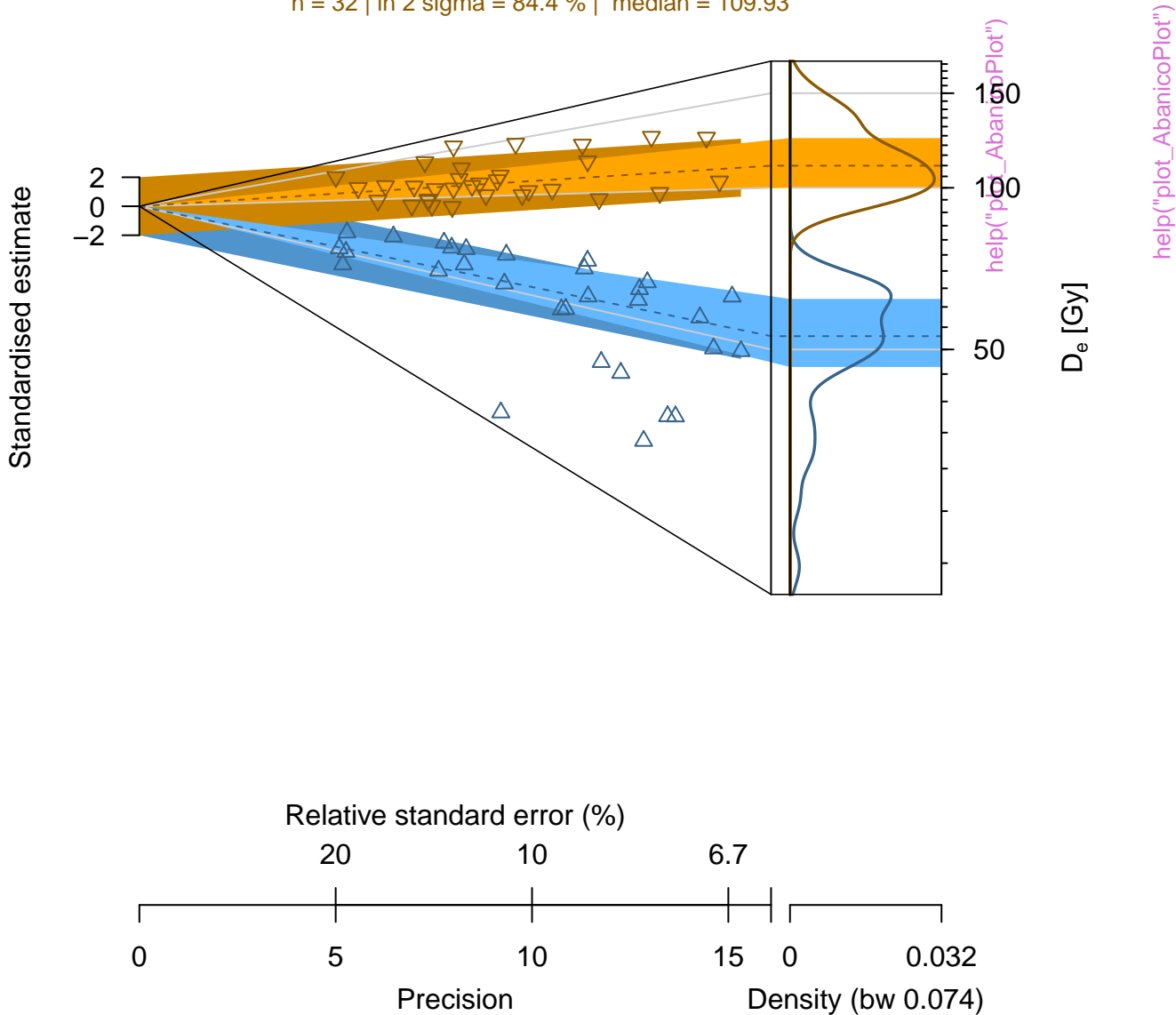
Precision

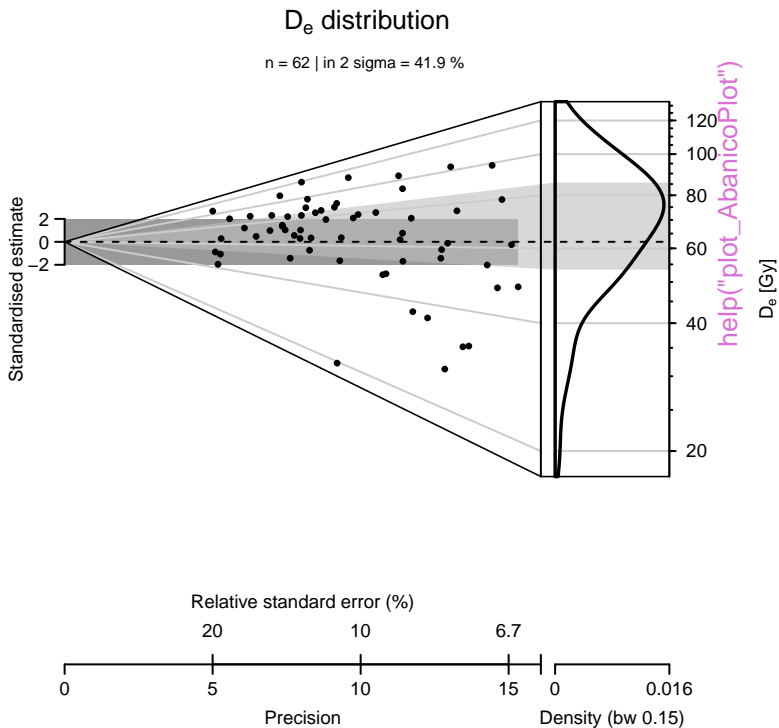
Density (bw 0.074)

D_e distribution

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

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





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

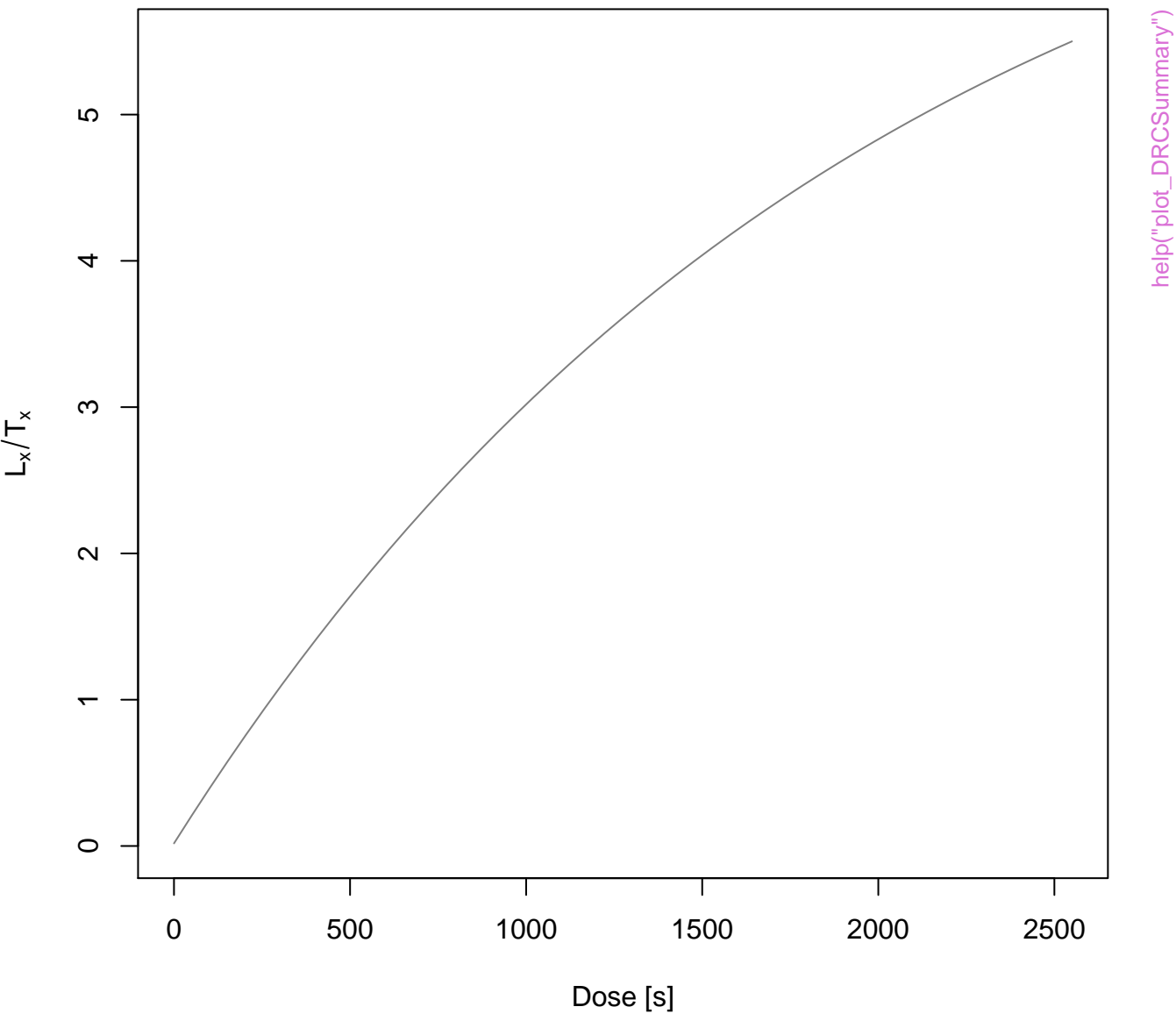
0.016

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

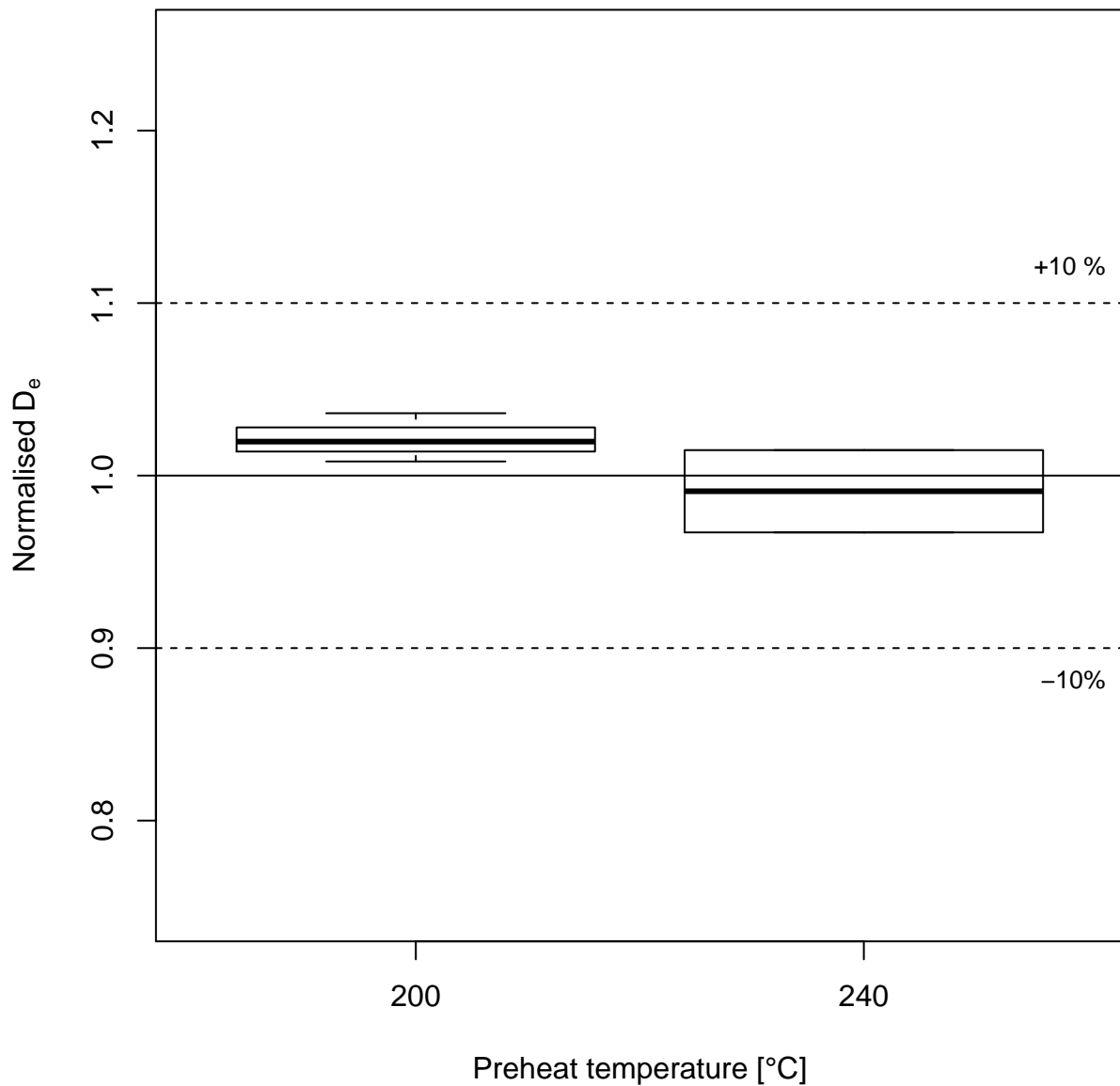
Example data



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

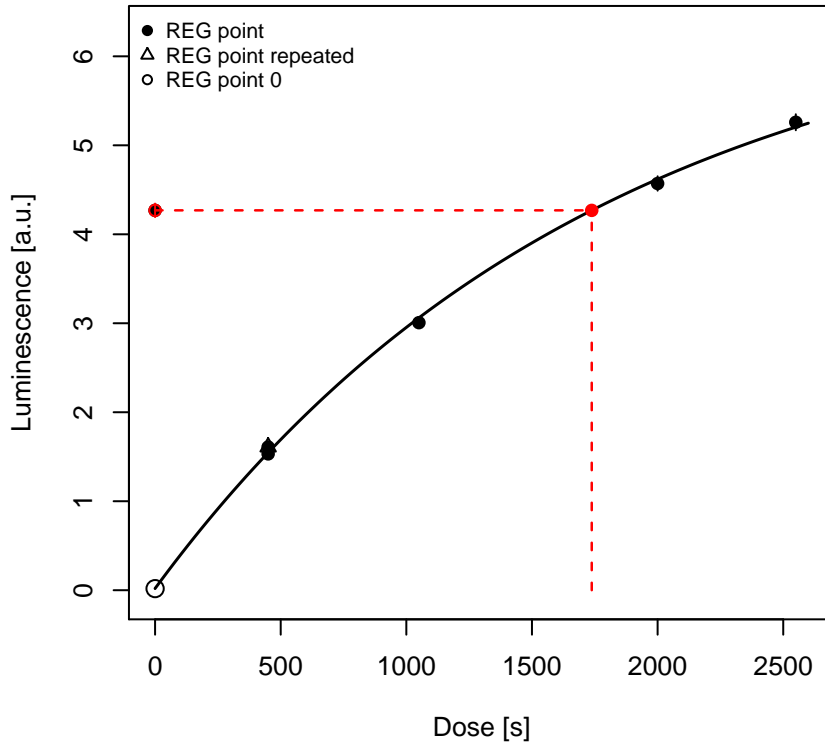


Test dose response



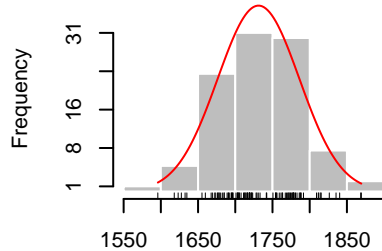
Growth curve

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



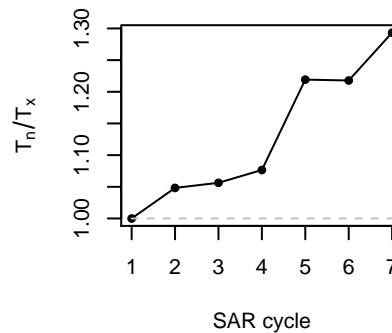
D_e from MC simulation

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



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

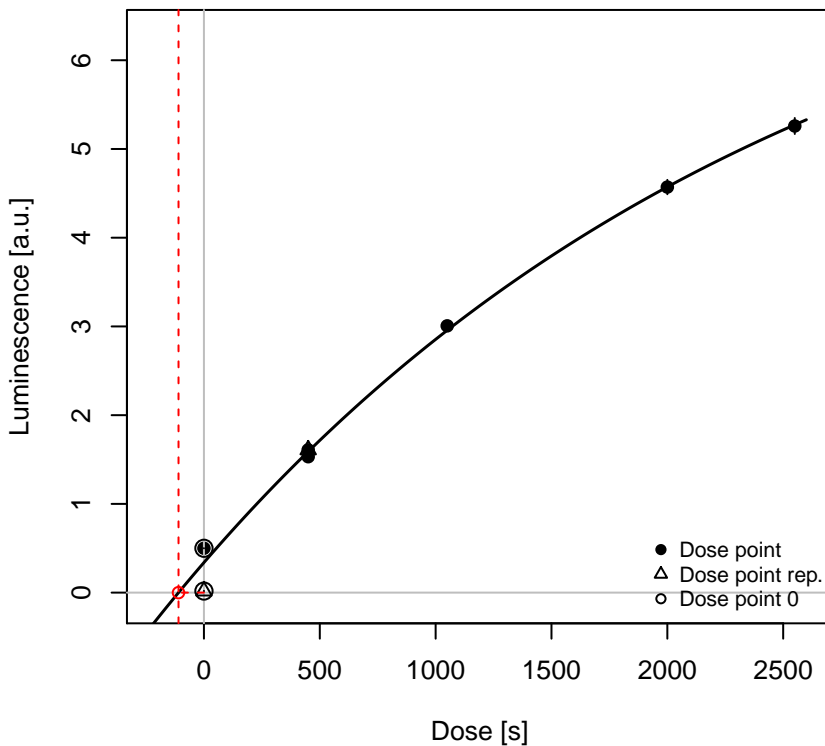




help("plot_GrowthCurve")

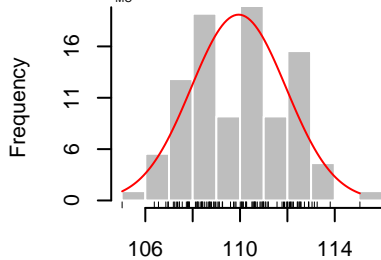
Growth curve

$D_e = 109.74 \pm 2$ | 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



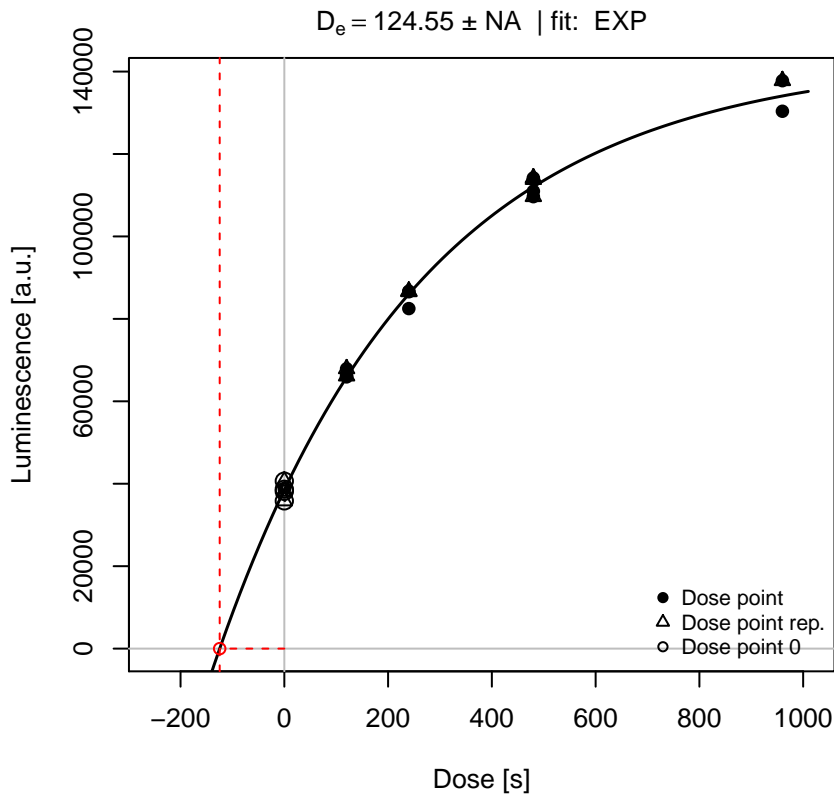
D_e from Monte Carlo simulation



Test dose response



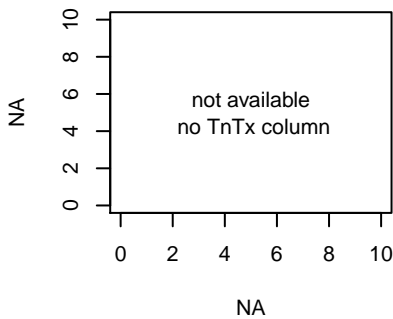
Growth curve



D_e from Monte Carlo simulation



Test dose response



Histogram



Histogram of De-values

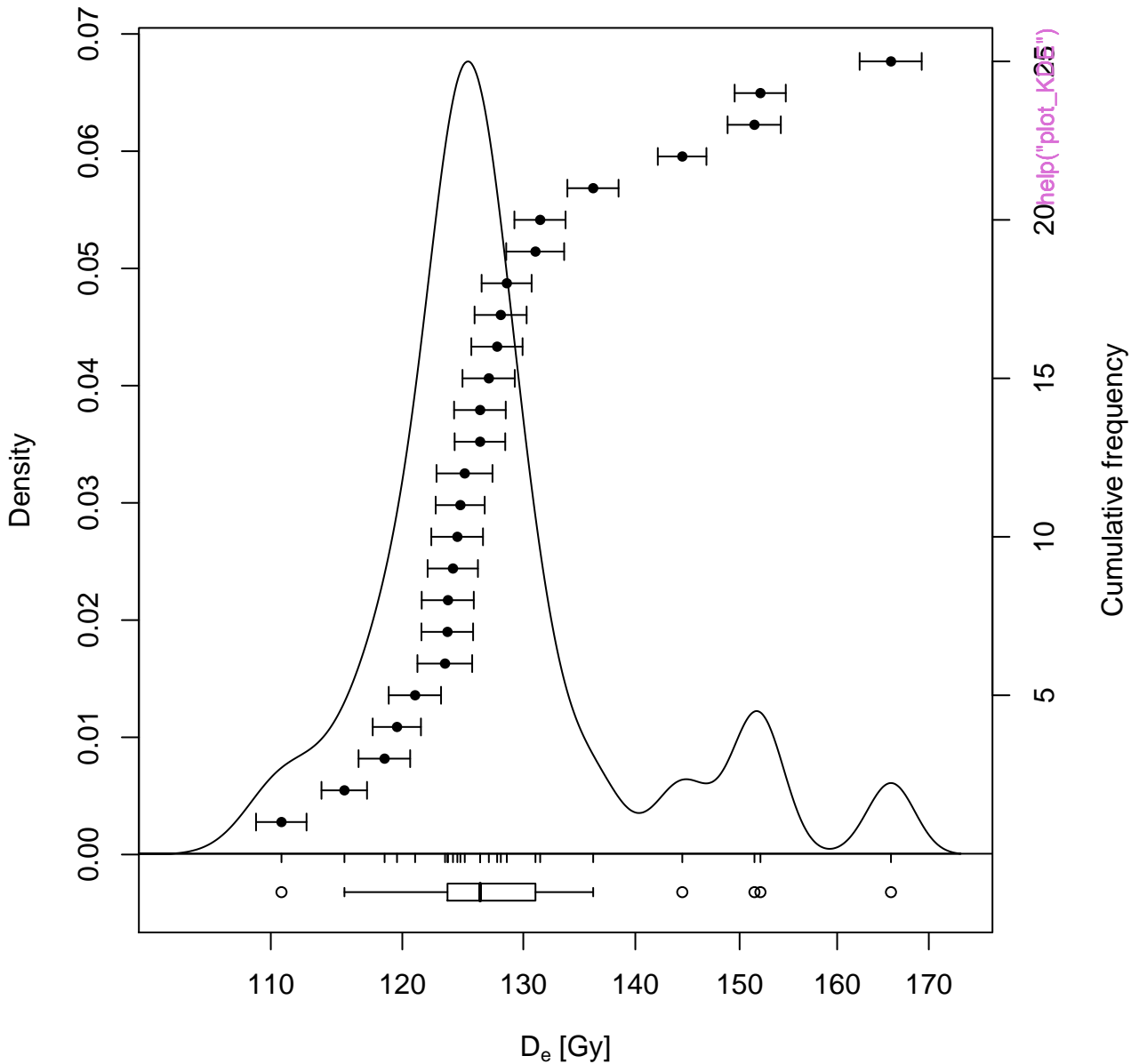
Example data set



D_e distribution



D_e distribution



Dose distribution



D_e distribution



D_e distribution

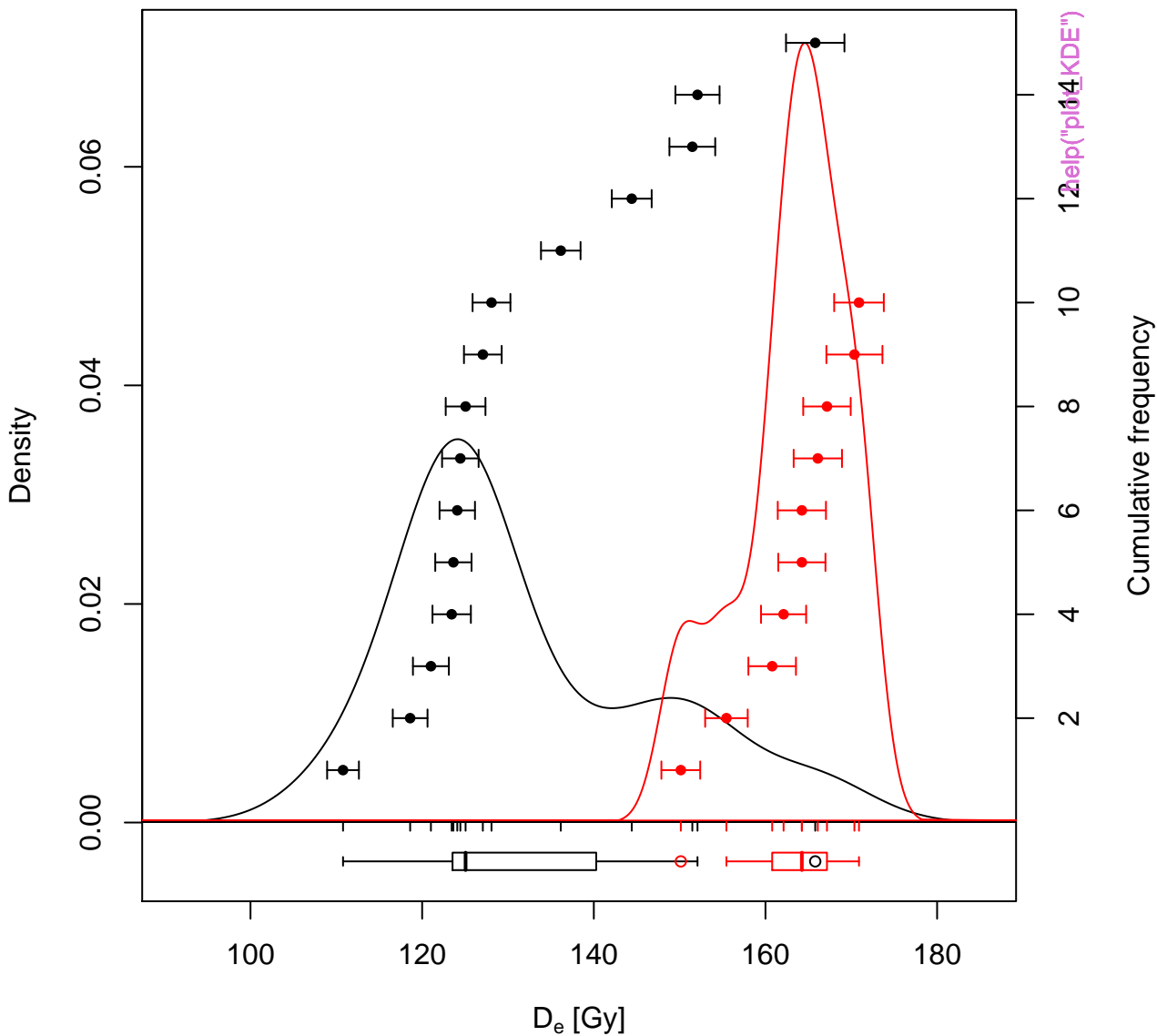
n = 25 | median = 126.34 | skewness = 1.34 | in 2 sigma = 96 %



D_e distribution



D_e distribution



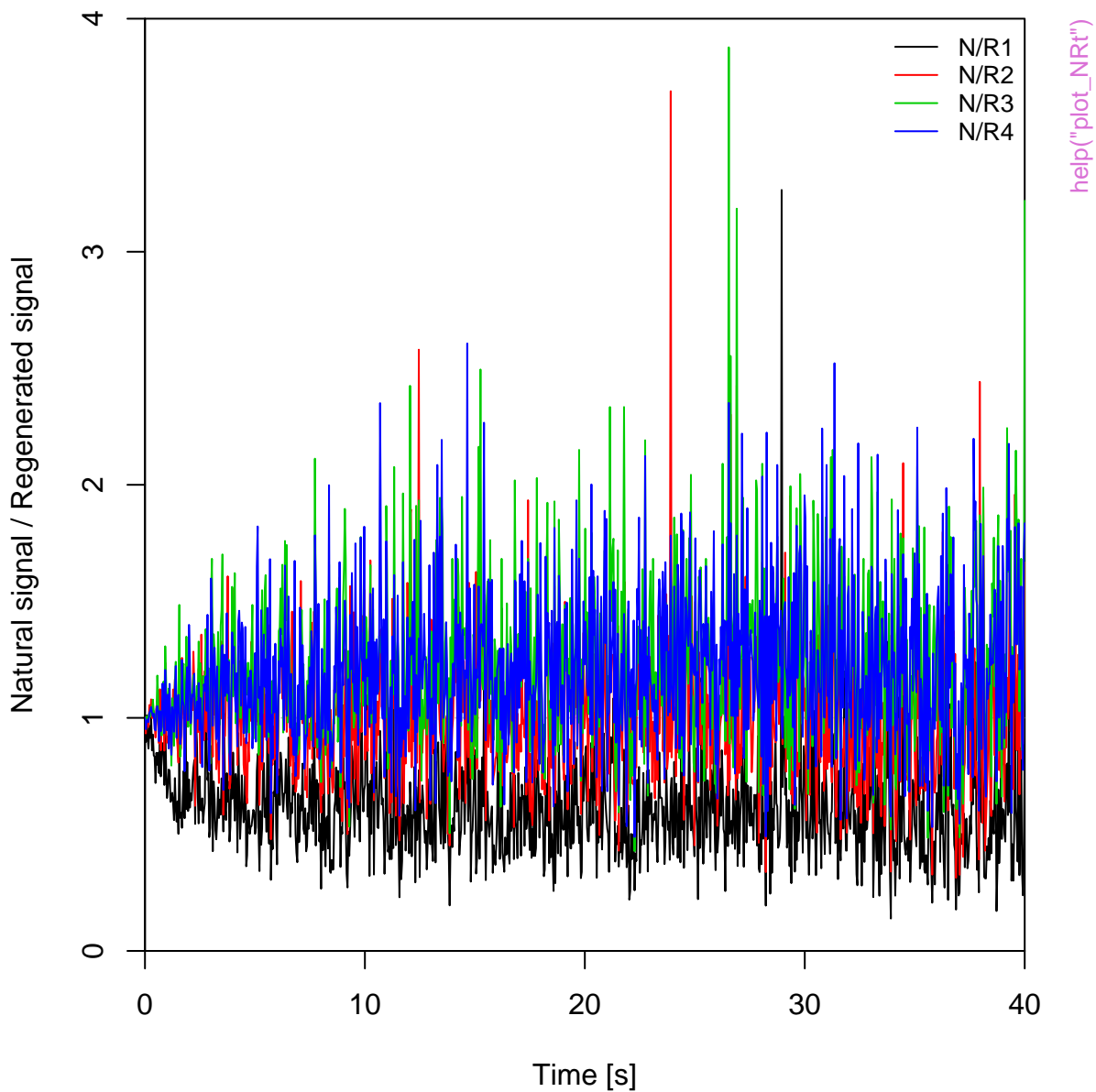
D_e distribution



D_e distribution



NR(t) Plot



NR(t) Plot



help("plot_NRt")

NR(t) Plot



NR(t) Plot



NR(t) Plot



TnTx(t) Plot

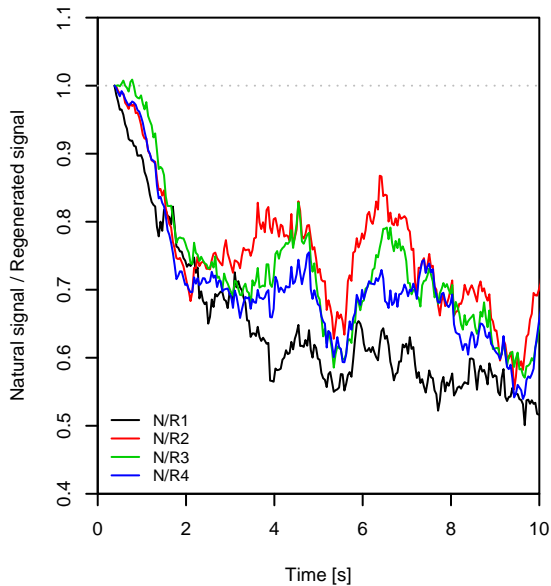
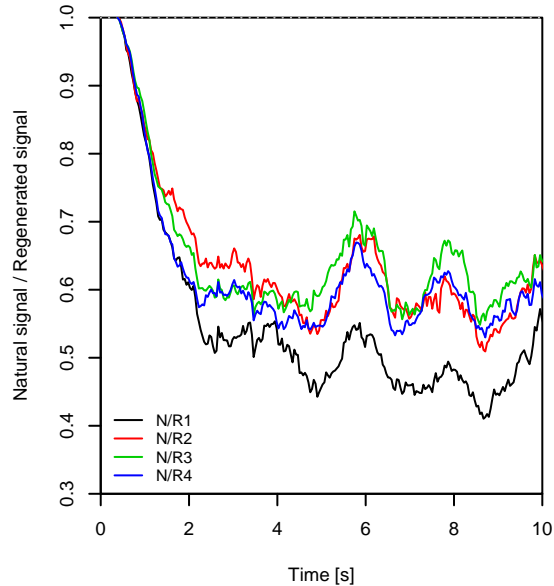


Aliquot #1**Aliquot #2**

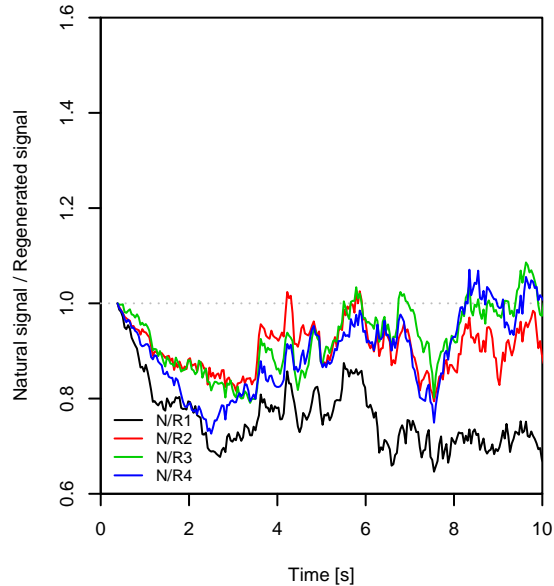
help("plot_NRt")

Aliquot #3**Aliquot #4**

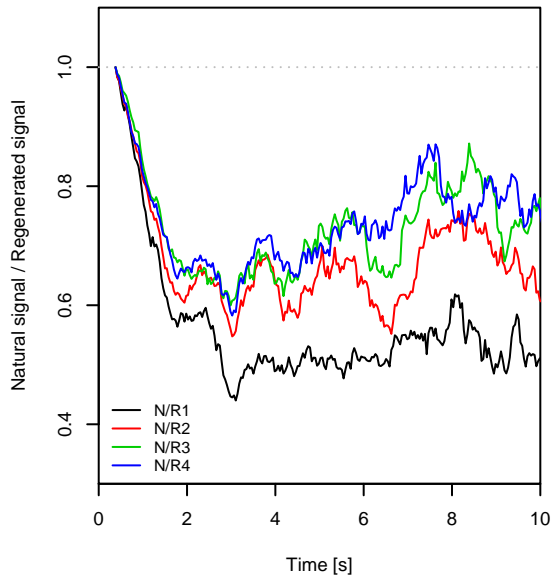
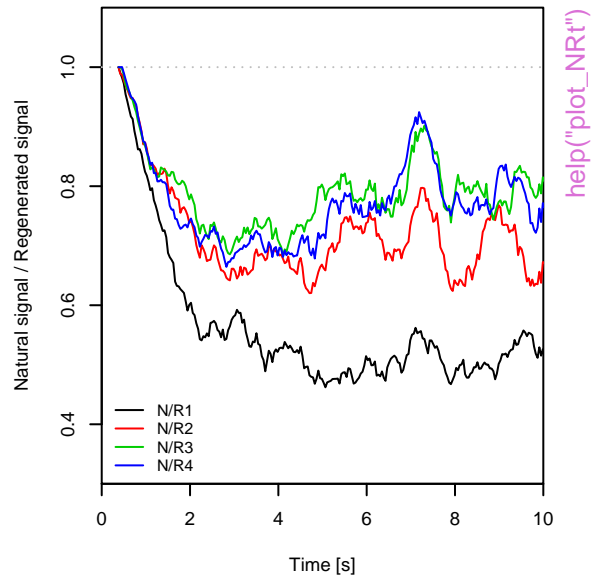
Aliquot #5**Aliquot #6****Aliquot #7****Aliquot #8**

Aliquot #9**Aliquot #10**

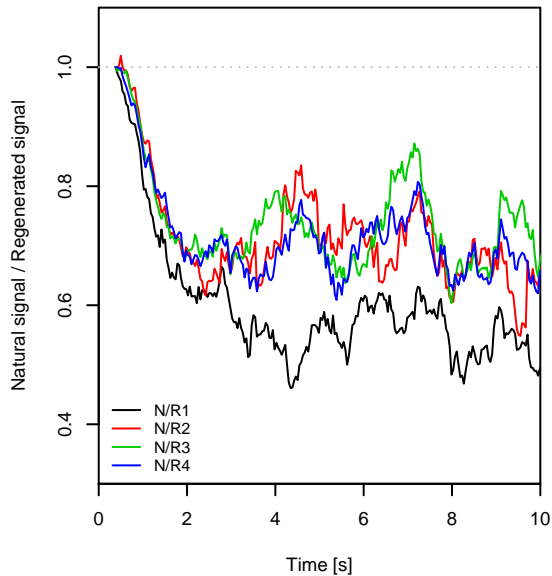
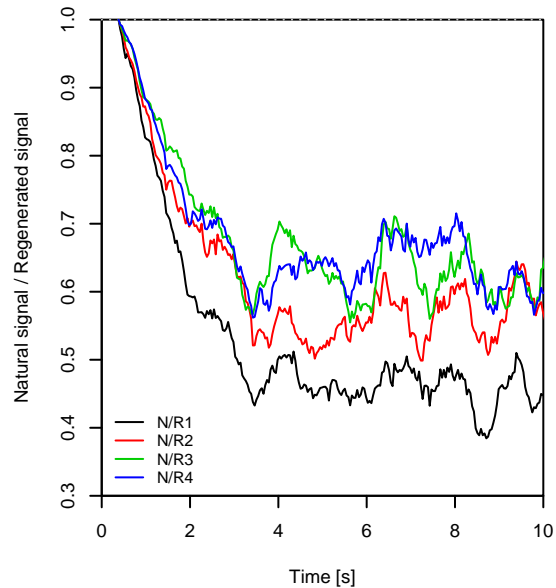
help("plot_NRt")

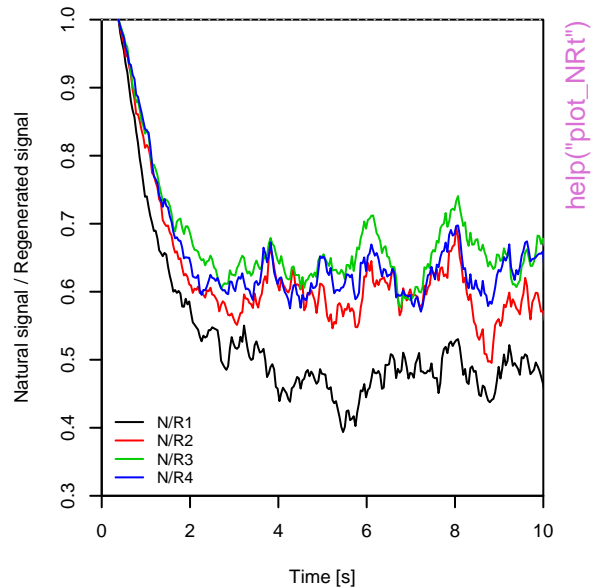
Aliquot #11**Aliquot #12**

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

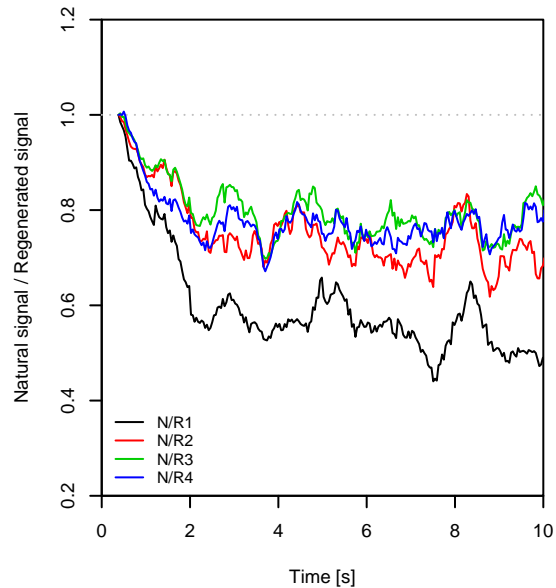
Aliquot #17**Aliquot #18**

help("plot_NRt")

Aliquot #19**Aliquot #20**

Aliquot #21**Aliquot #22**

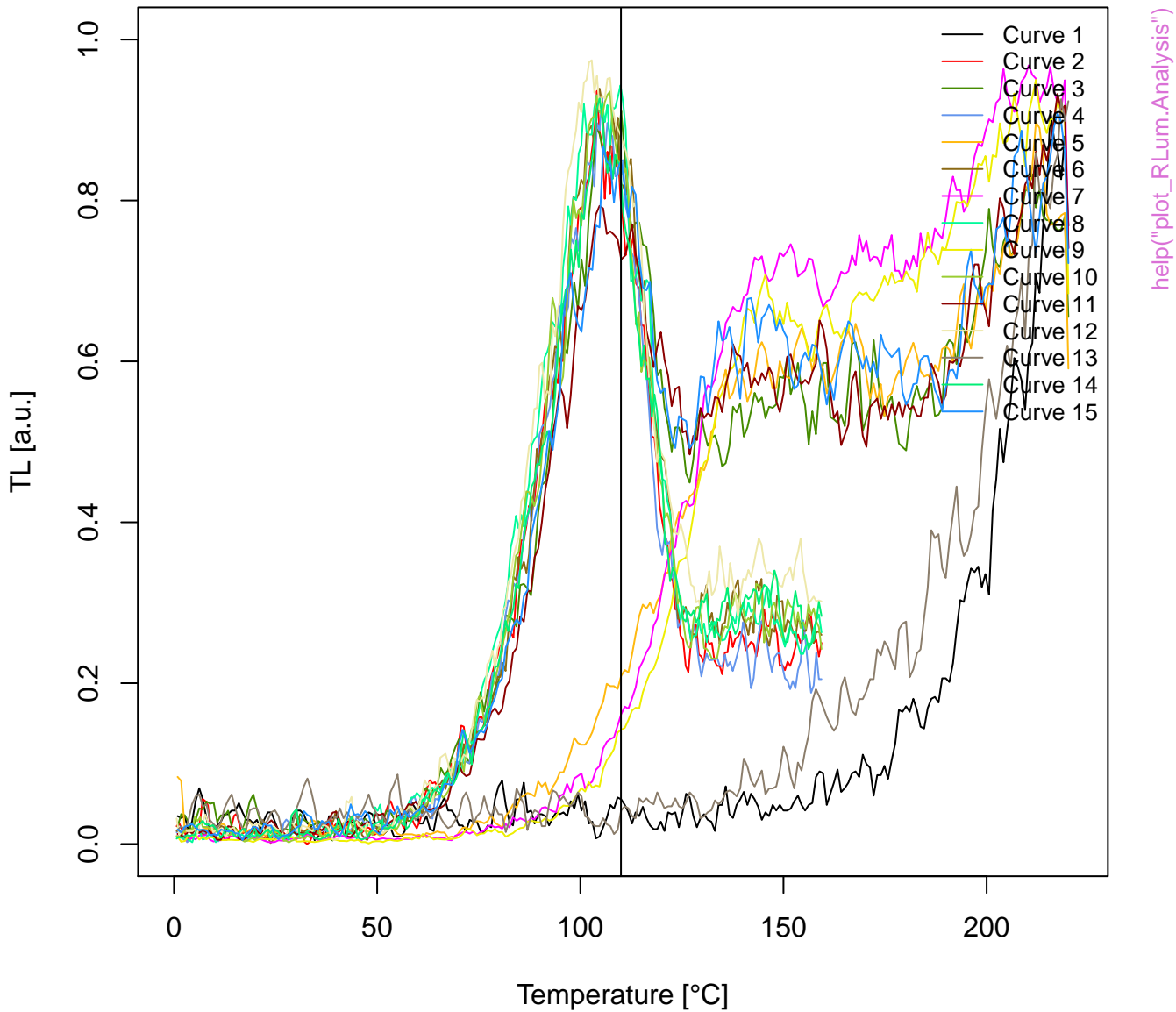
help("plot_NRt")

Aliquot #23**Aliquot #24**

TL combined



TL combined



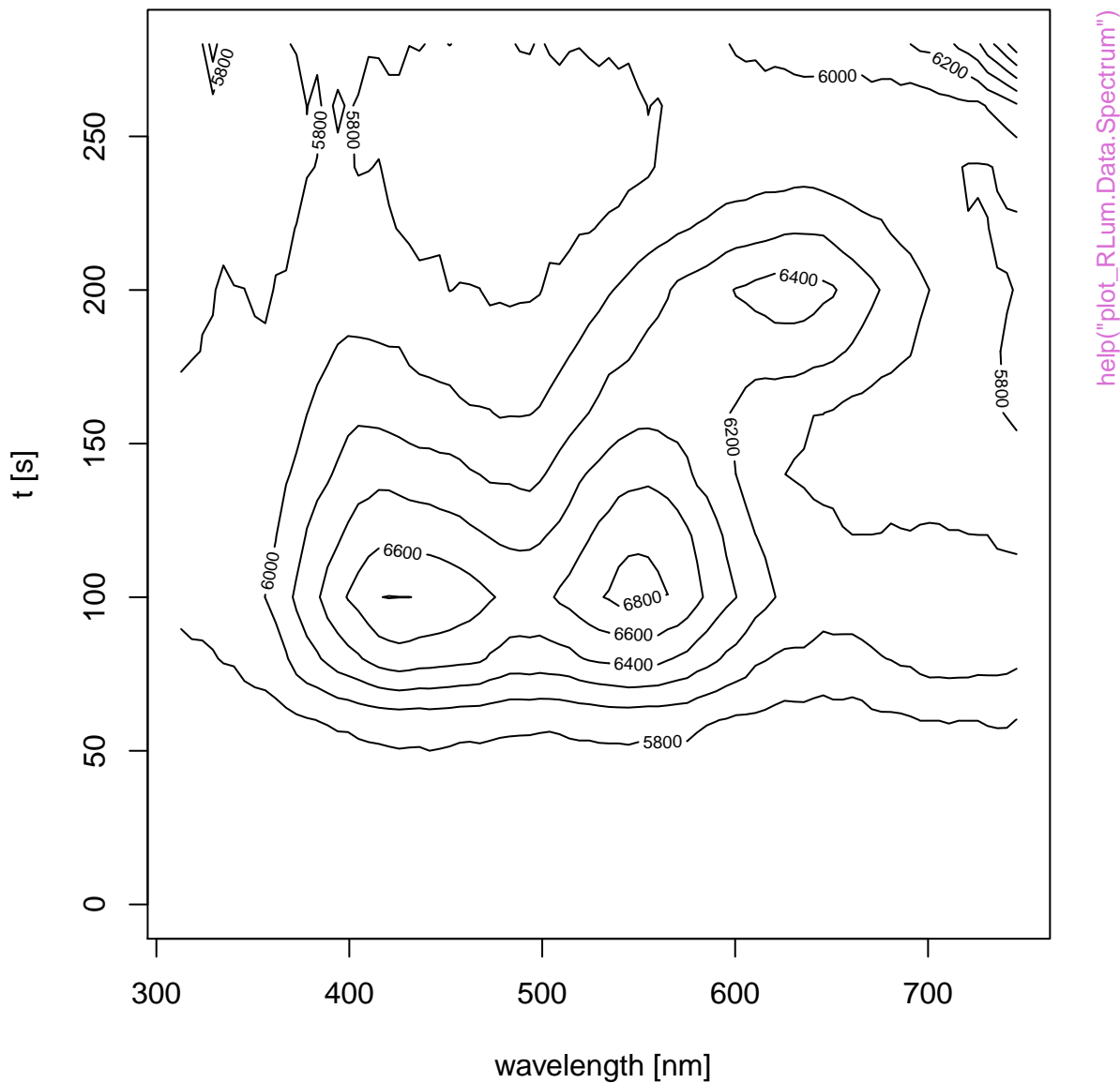
unkown curve type



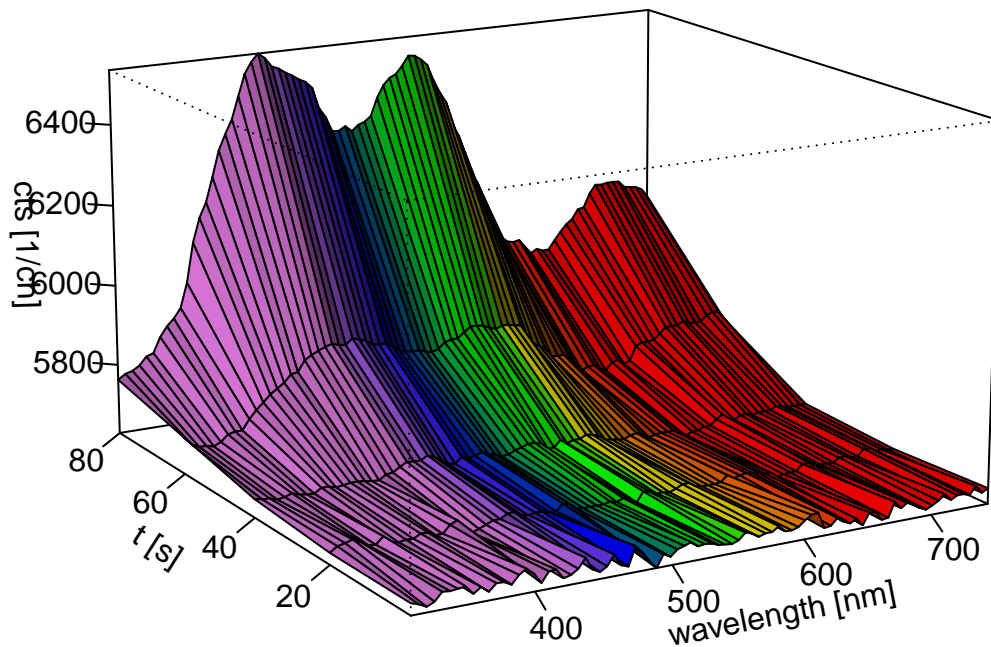
RLum.Data.Image



RLum.Data.Spectrum

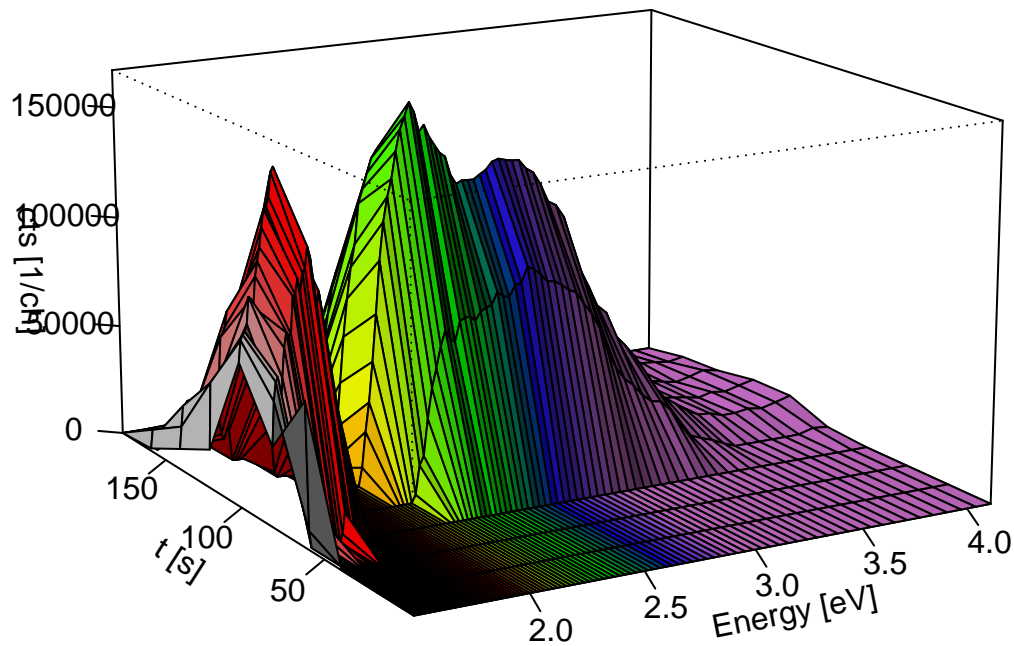


RLum.Data.Spectrum



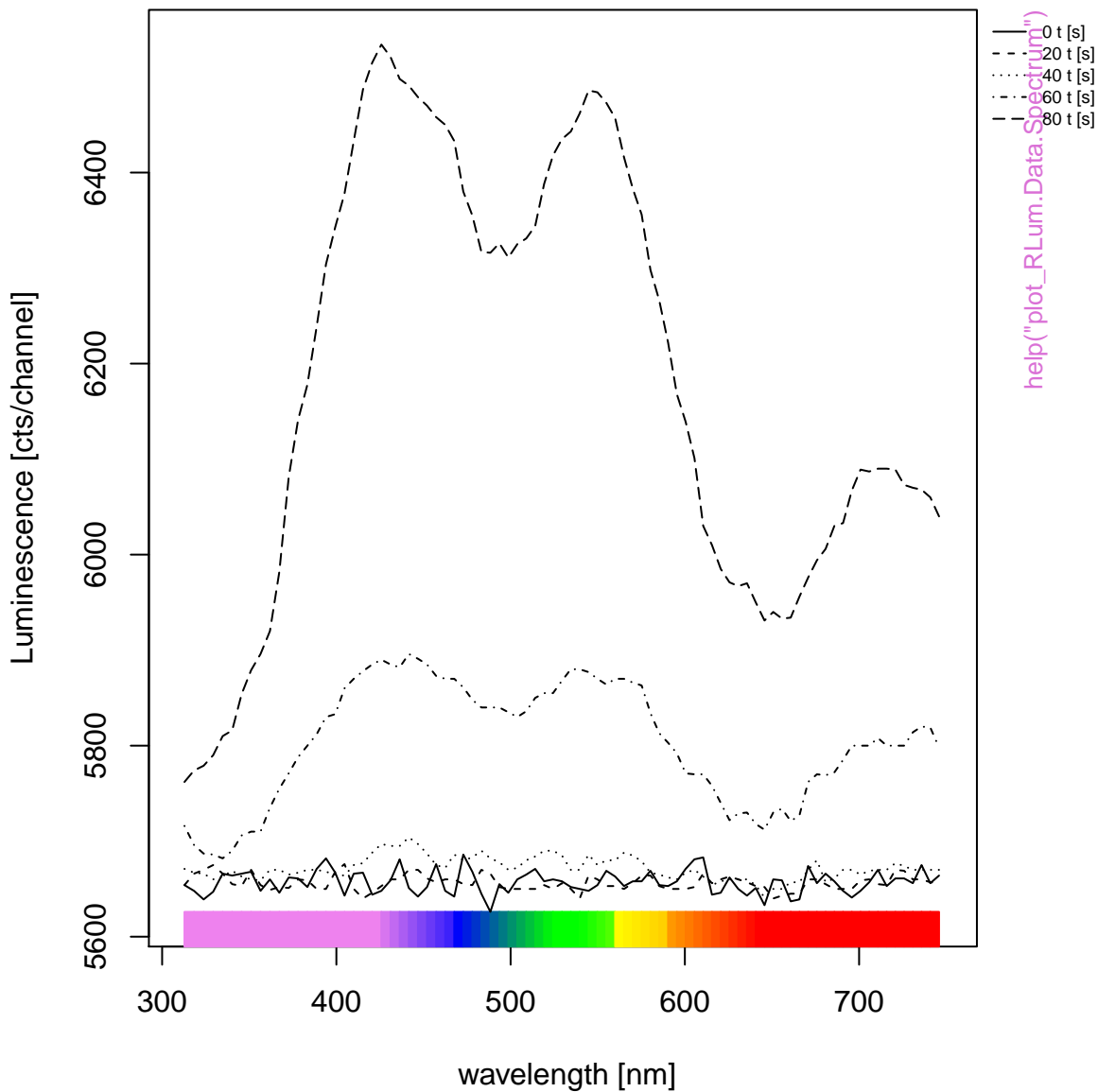
`help("plot_RLum.Data.Spectrum")`

RLum.Data.Spectrum



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

RLum.Data.Spectrum



unkown curve type



Likelihood profile: gamma



Likelihood profile: sigma

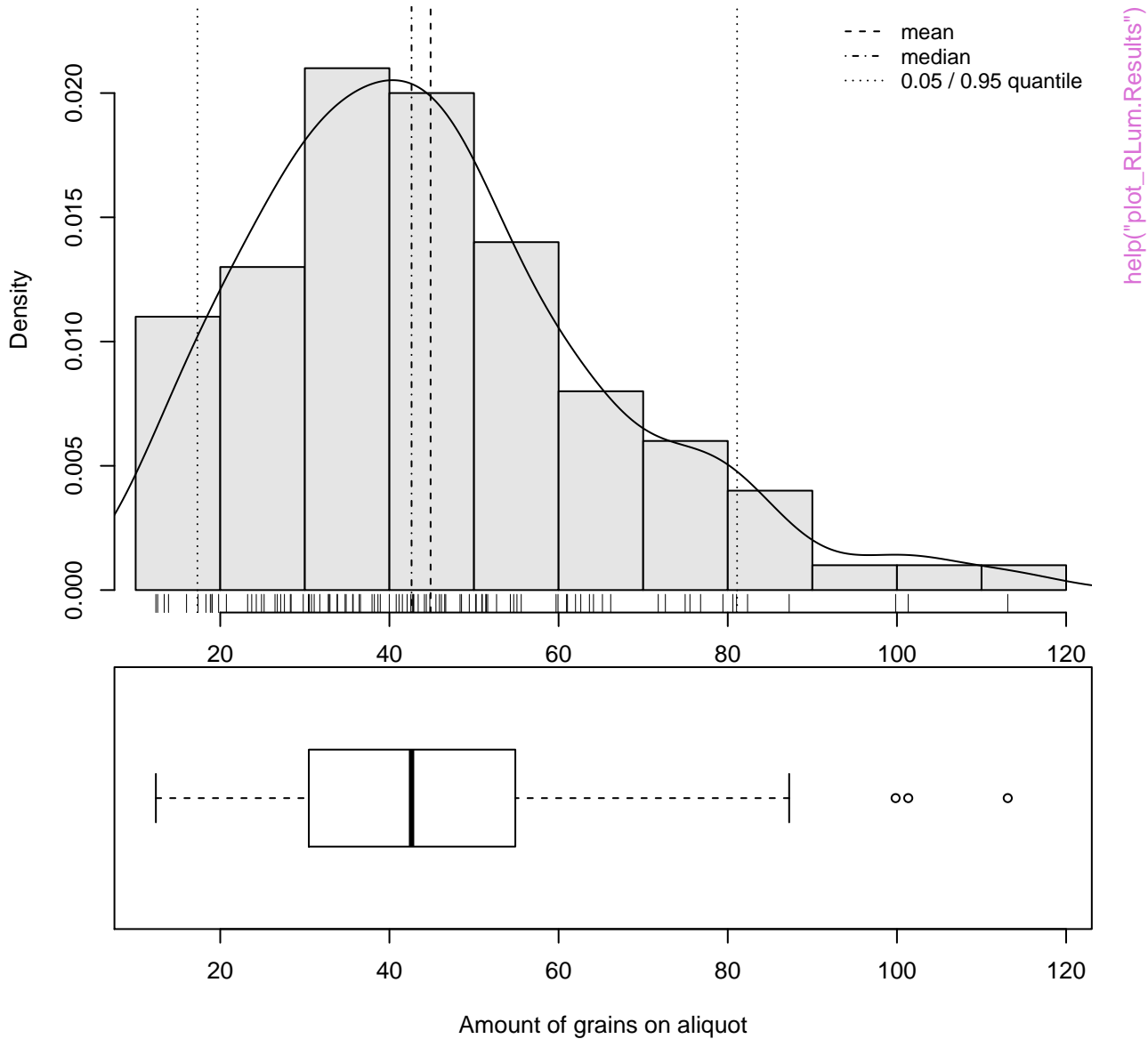


Likelihood profile: p0



Monte Carlo Simulation

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



D_e distribution

n = 25 | in 2 sigma = 68 %



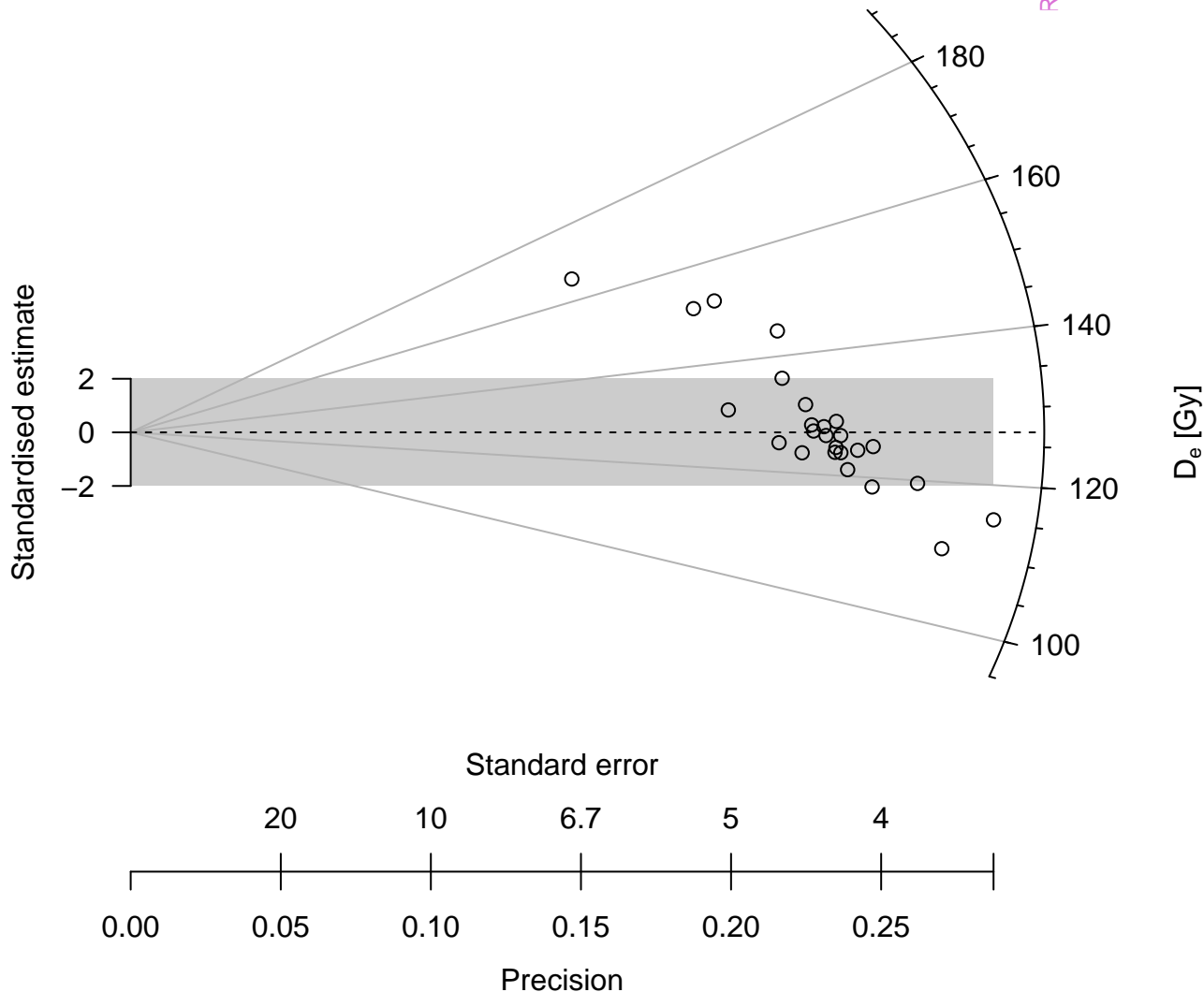
D_e distribution

n = 25 | in 2 sigma = 68 %



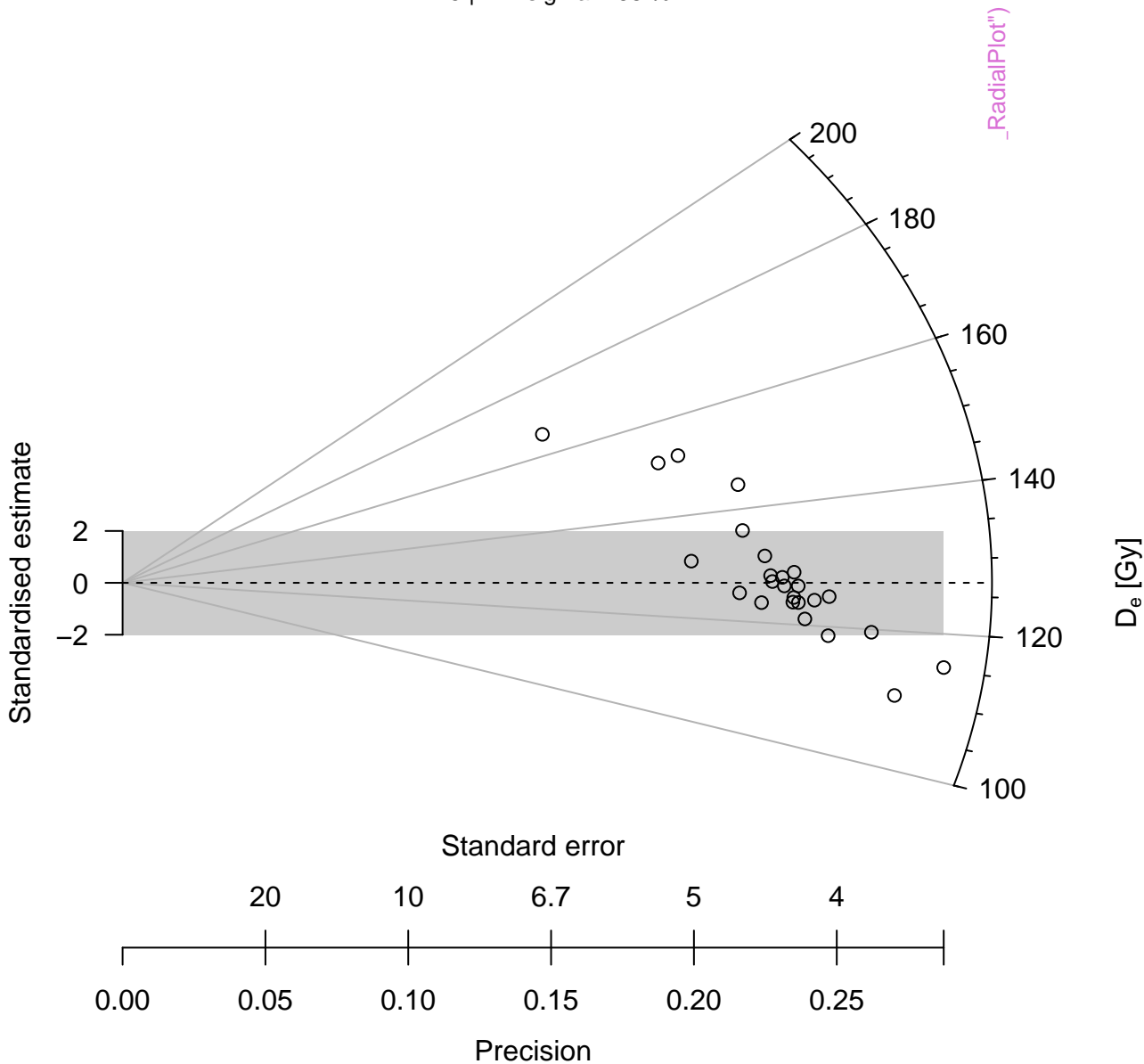
D_e distribution

n = 25 | in 2 sigma = 68 %



D_e distribution

n = 25 | in 2 sigma = 68 %



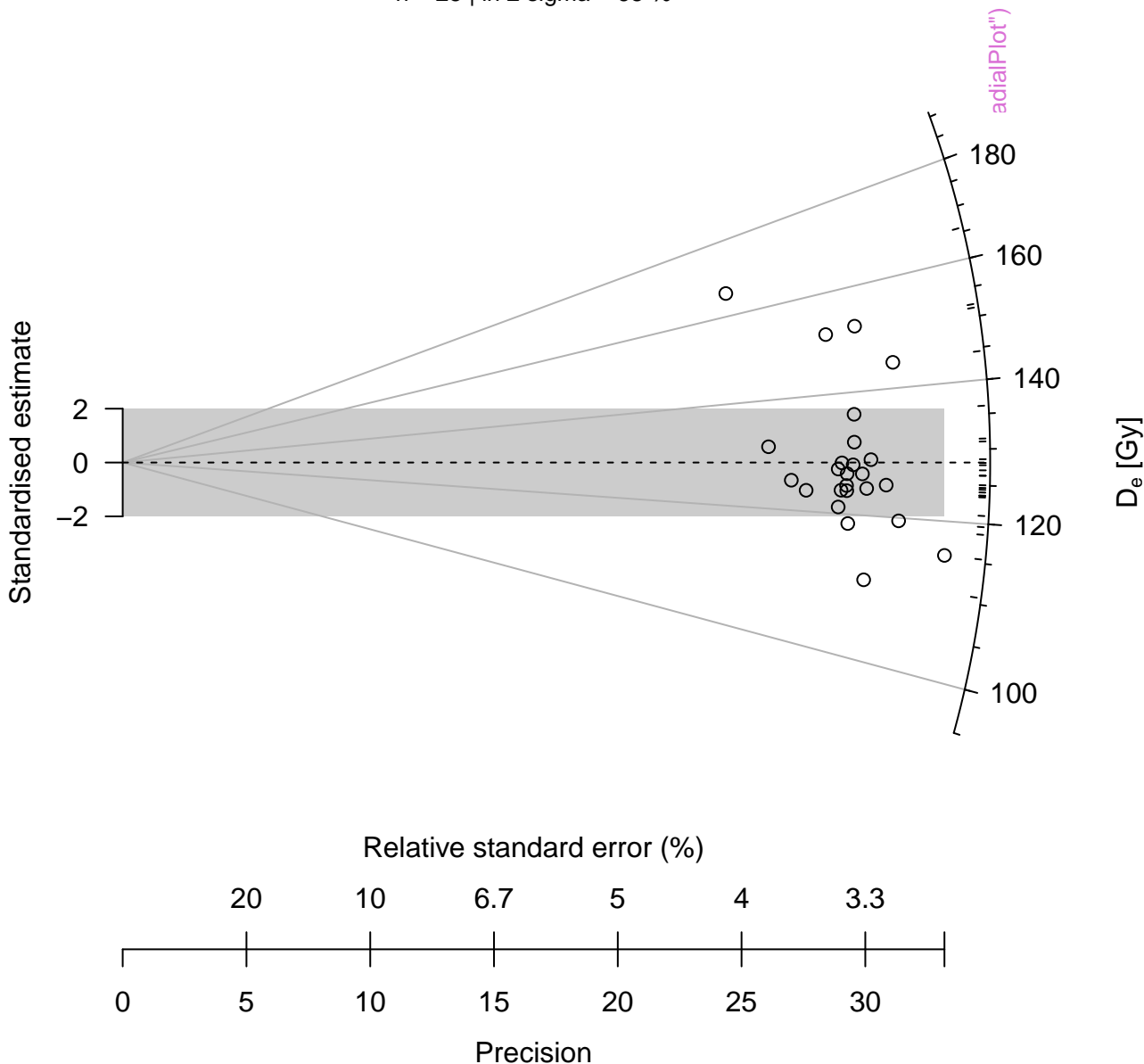
D_e distribution

n = 25 | in 2 sigma = 68 %



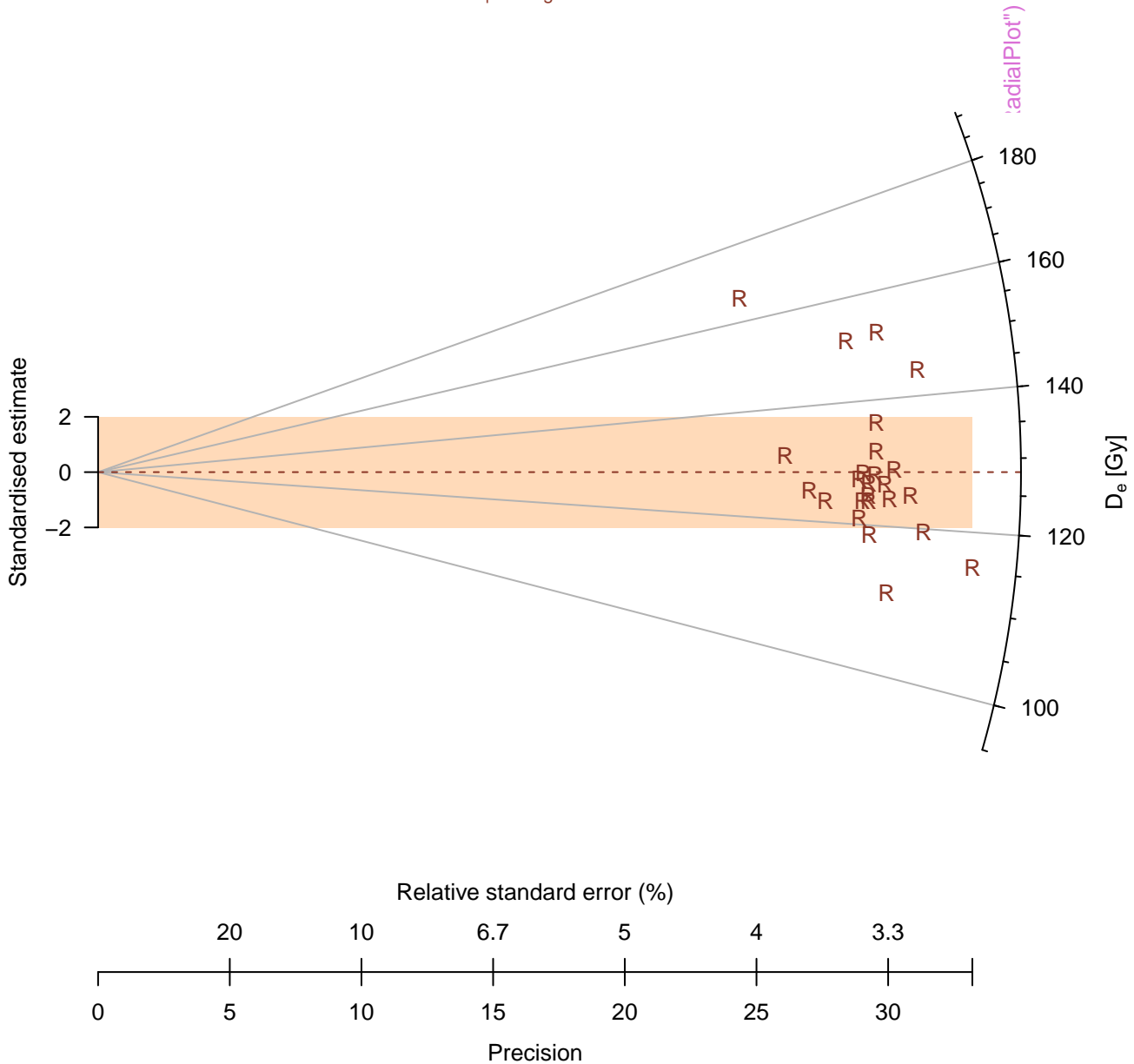
D_e distribution

n = 25 | in 2 sigma = 68 %



D_e distribution

n = 25 | in 2 sigma = 68 %



D_e distribution

n = 25 | in 2 sigma = 68 %

Standardised estimate

0

0

20

5

10

10

6.7

15

5

20

4

25

3.3

30

Precision

Relative standard error (%)

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 %



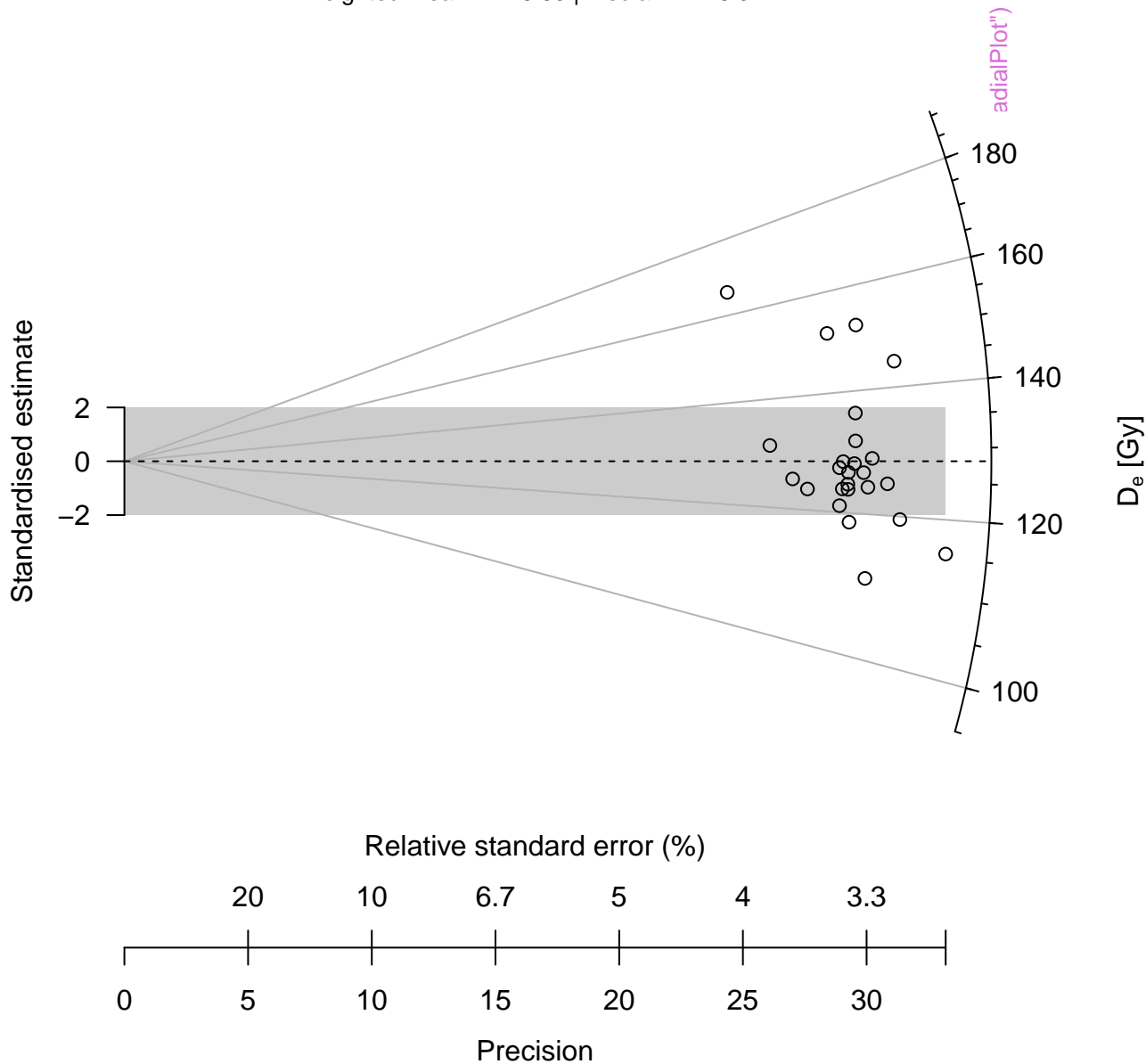
D_e distribution

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



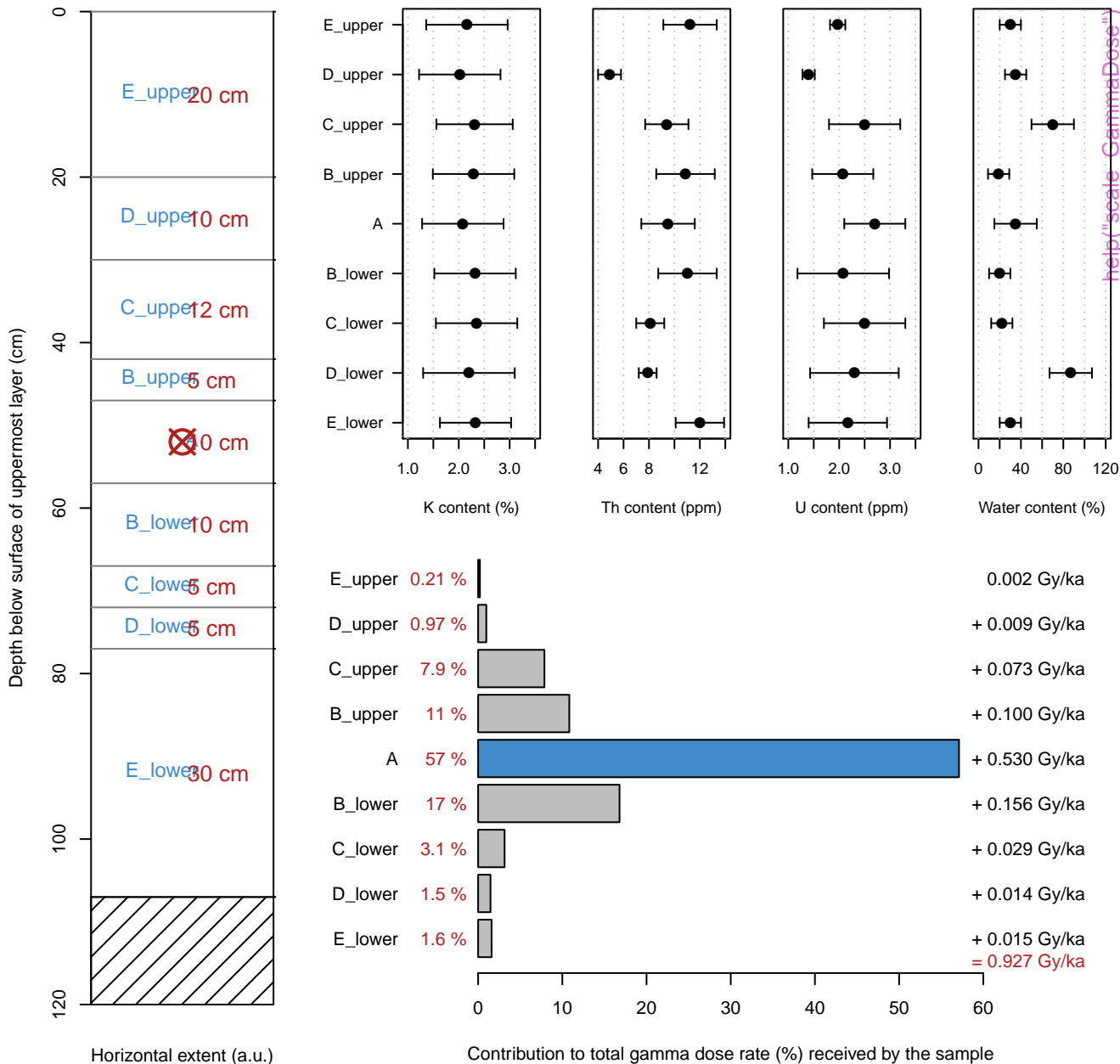
IRSL combined



`help("read_PSL2R")`

OSL combined





OSL



OSL



OSL



D_e distribution

n = 62 | mean = 66.01



D_e distribution

n = 62 | mean = 66.01

