





Fig. 4 – Bos & Wallinga (2012)





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Fig. 4 – Bos & Wallinga (2012)





Fig. 4 – Bos & Wallinga (2012)





Histogram



Histogram





Χ

LxTxData\$Dose







RLum.Data.Image



OSL (UVVIS)



RLum.Data.Spectrum



IR-RF



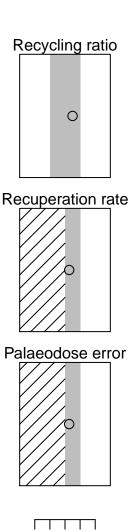


Growth curve

 $D_e = 1668.25 \pm 46.11$ | fit: EXP

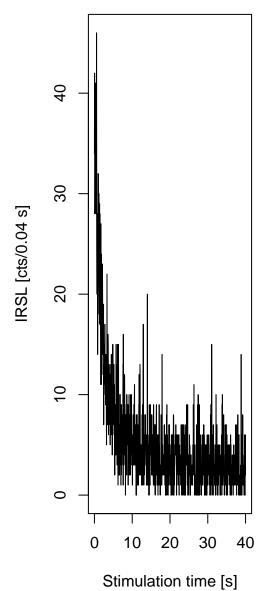






- 0.2

+0.2





Growth curve

 $D_e = 406.85 \pm 42.81$ | fit: LIN





TL pseudoIRSL1 pseudoIRSL2



T [°C]

help("analyse_pIRIRSequence")





T [°C]





D_e from MC simulation



Test dose response







Pseudo pIRIR data set based on quartz OSL

 $D_e = 1668.25 \pm 48.13$ | fit: EXP



$\ensuremath{D_{e}}$ from MC simulation





Summarised Dose Response Curves



Sensitivity change



Rejection criteria



Monte Carlo Simulation



Profile log likelihood for σ_{OD}





Fuchs & Lang (2001)







Likelihood profile: gamma



Likelihood profile: p0



Likelihood profile: sigma



Likelihood profile: gamma



Likelihood profile: p0



Likelihood profile: sigma



Likelihood profile: gamma



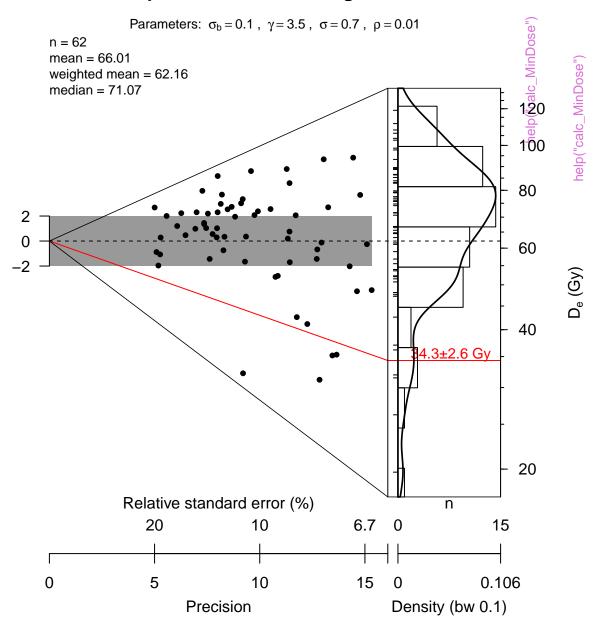
Likelihood profile: p0



Likelihood profile: sigma



3-parameter Minimum Age Model



Standardised estimate

Source Dose Rate Prediction



help("calc_SourceDoseRate")

D_{e} distribution







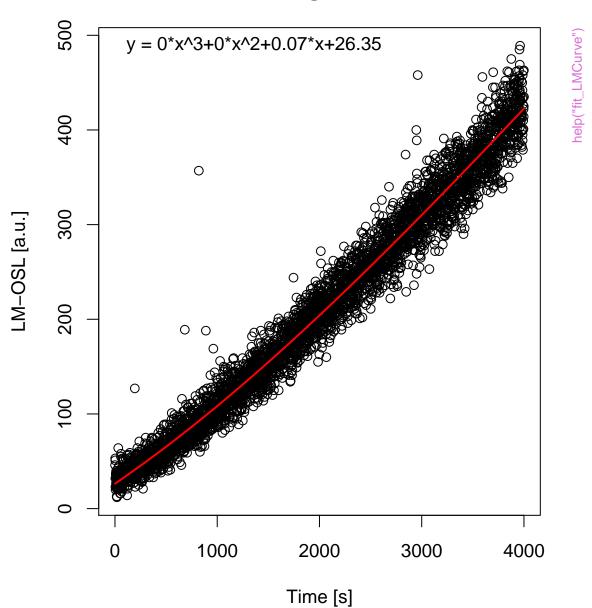








Background





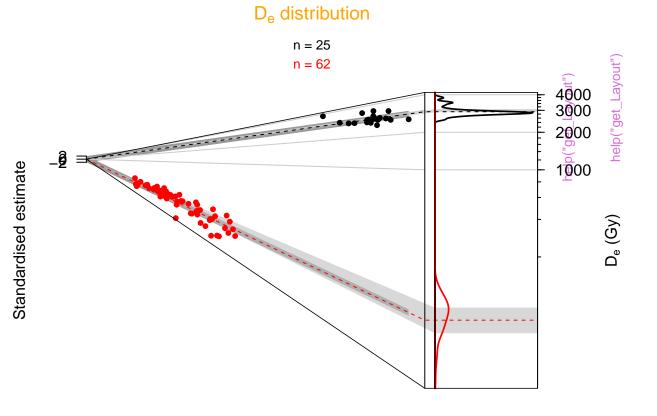


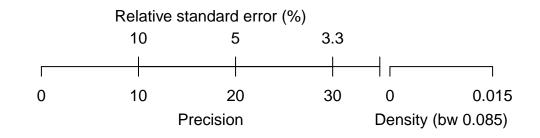


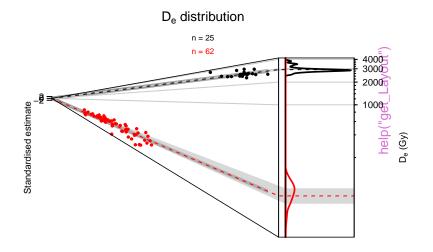














Profile log likelihood for σ_{OD}

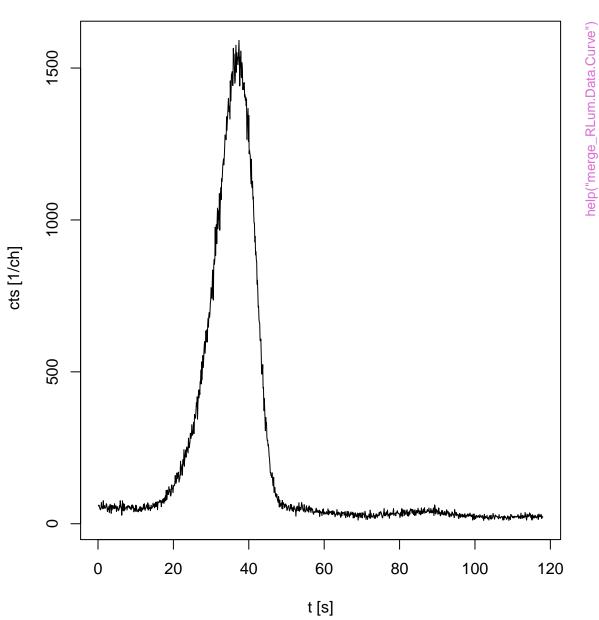


TL (UVVIS)

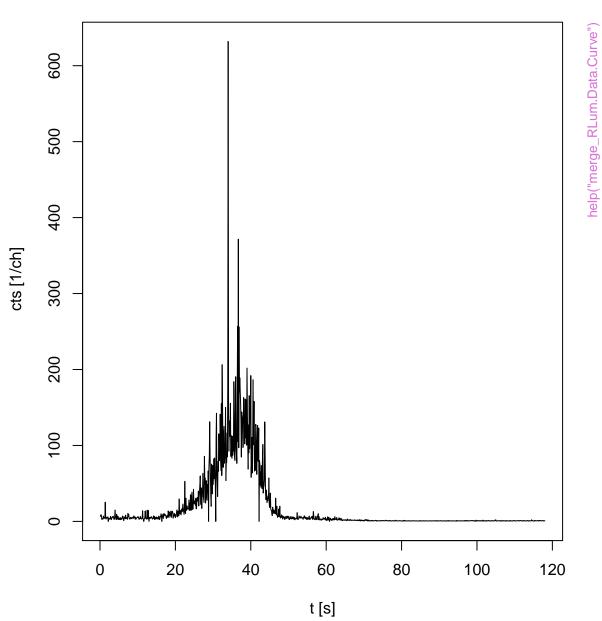


help("merge_RLum.Data.Curve")

TL (UVVIS)



TL (UVVIS)



Profile log likelihood for σ_{OD}



Profile log likelihood for σ_{OD}



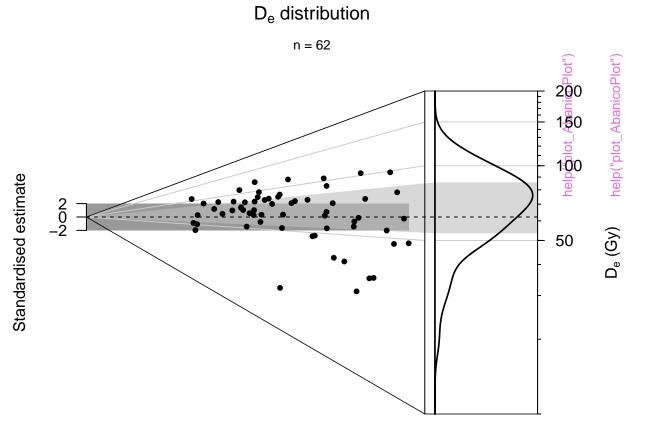




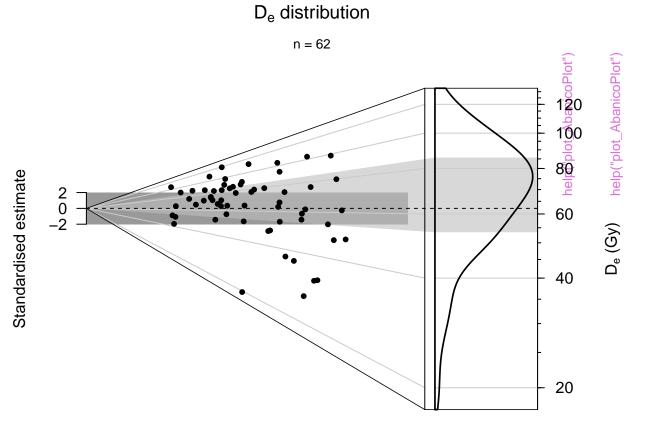


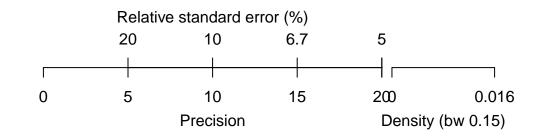


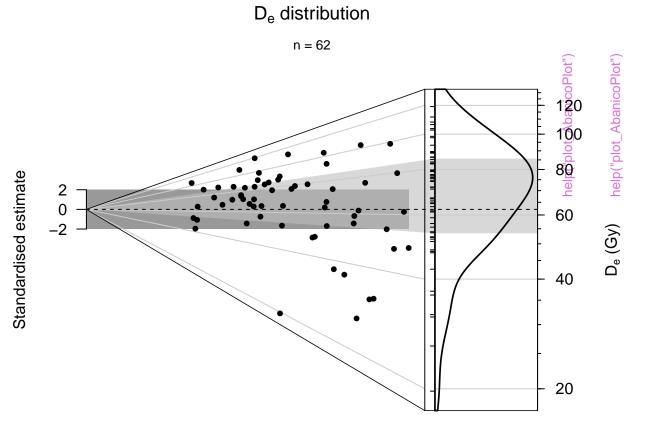




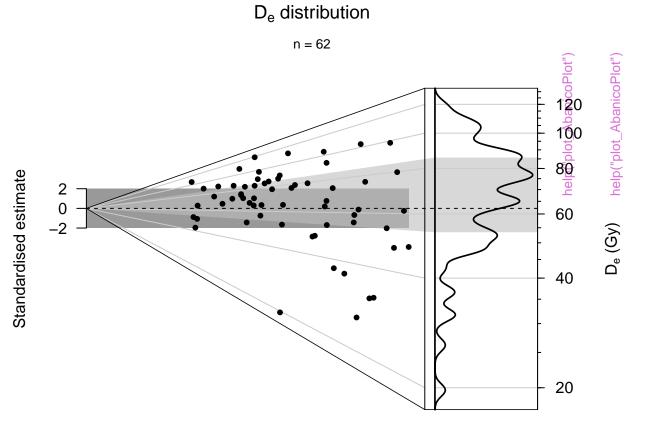


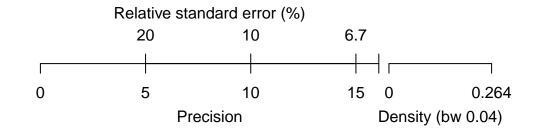


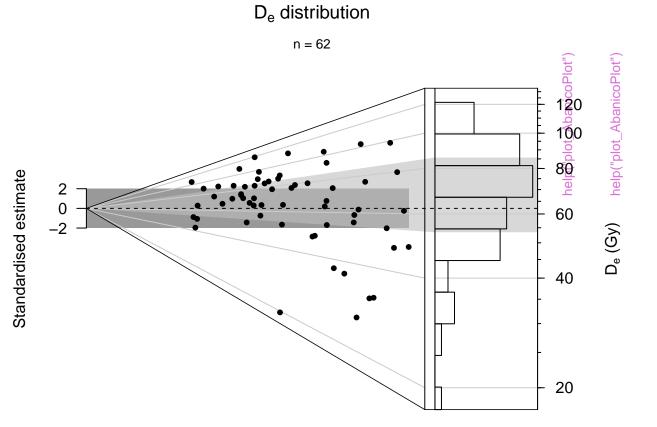


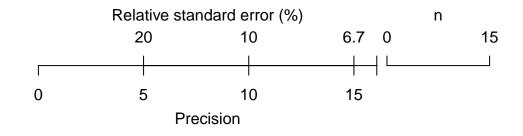


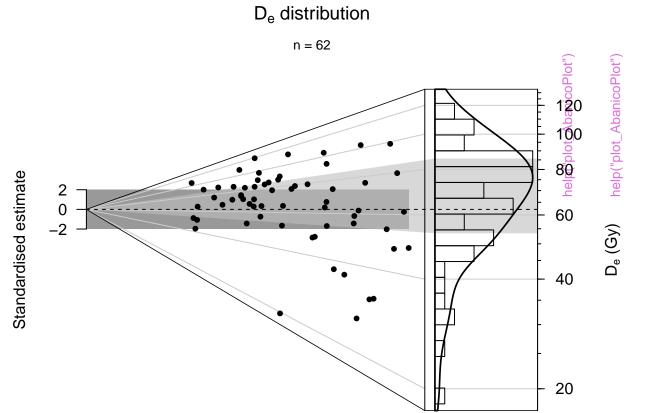


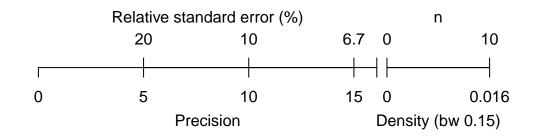


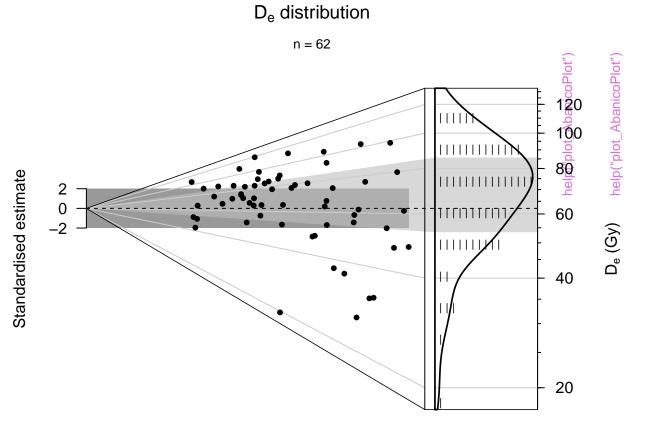


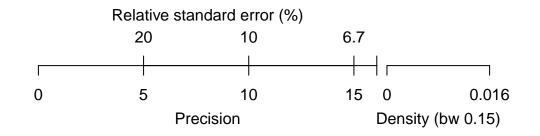


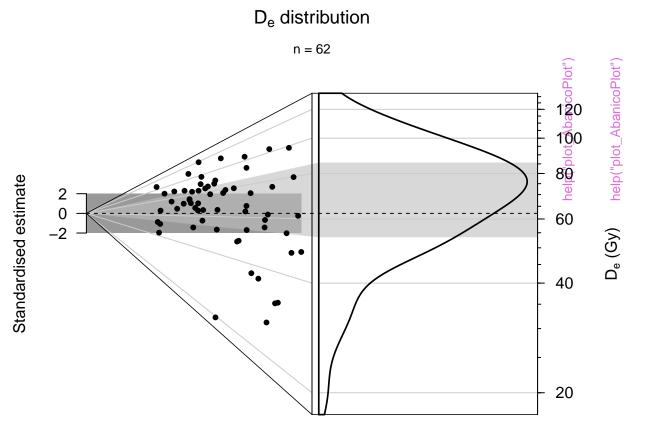


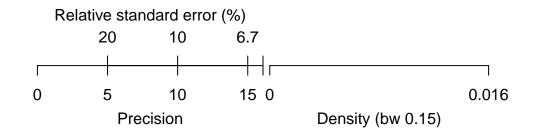






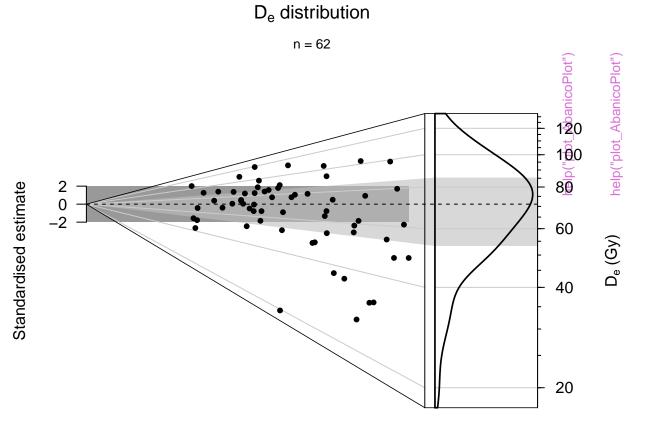


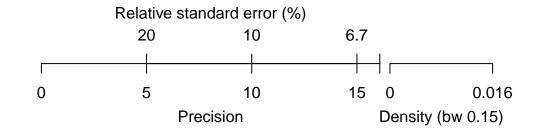


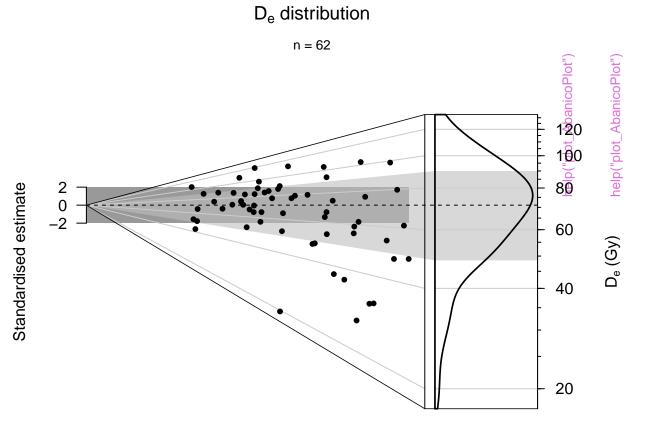




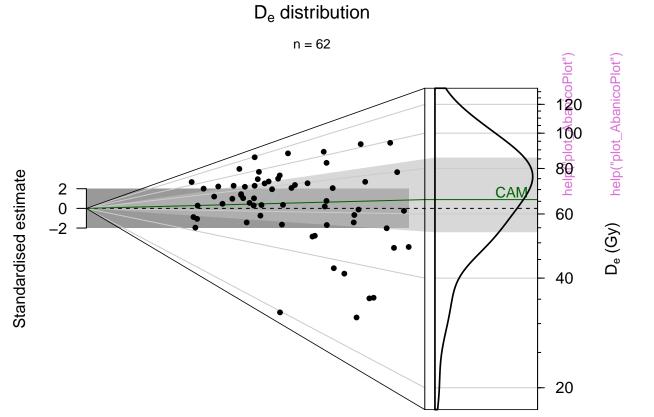






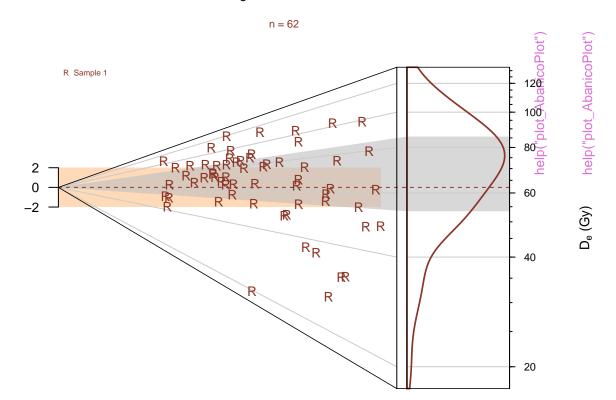




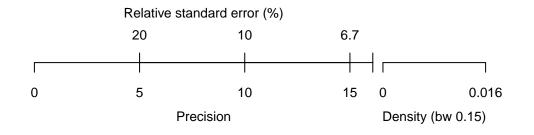


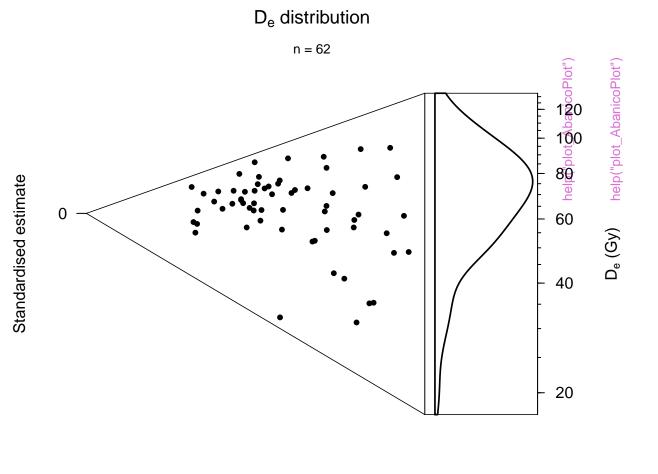


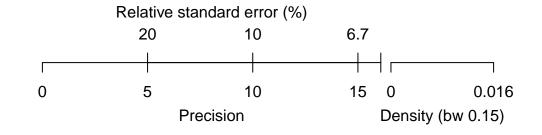
D_e distribution



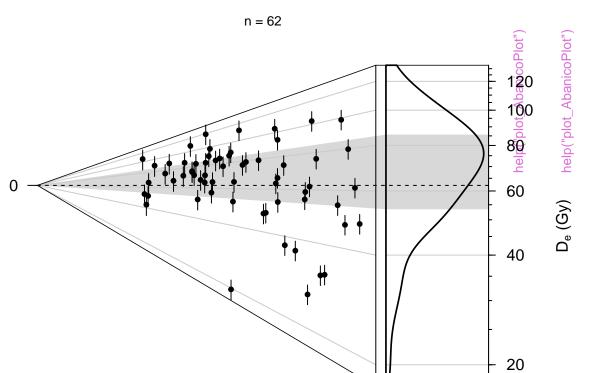
Standardised estimate

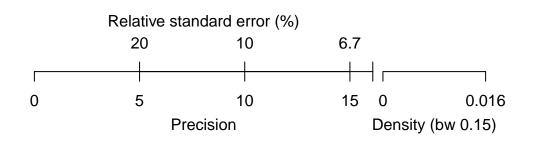


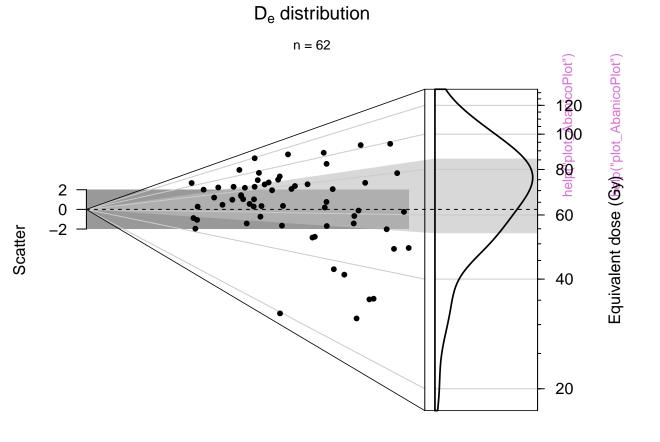


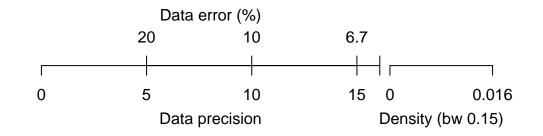


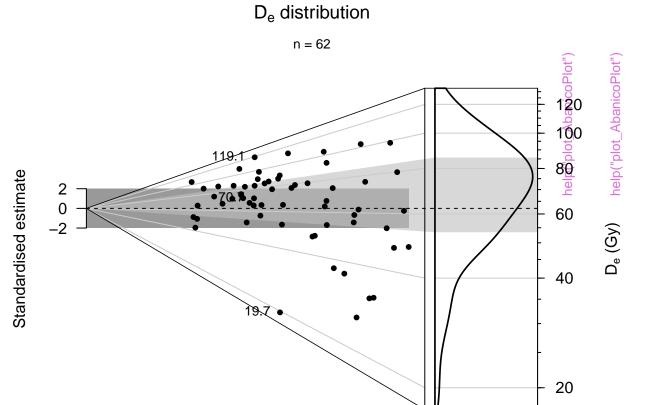
D_{e} distribution













D_e distribution

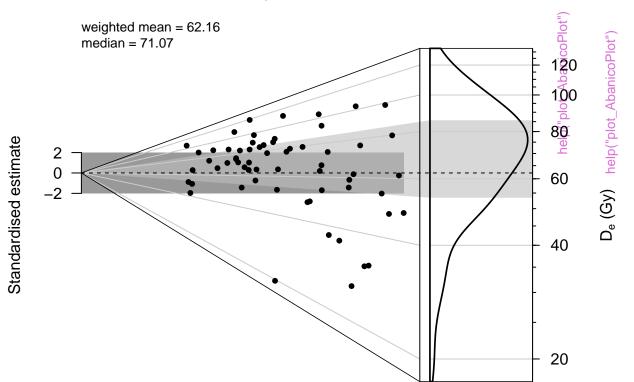




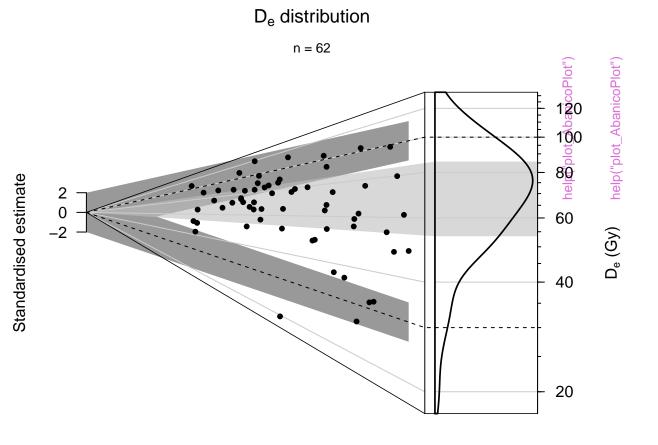
Standardised estimate



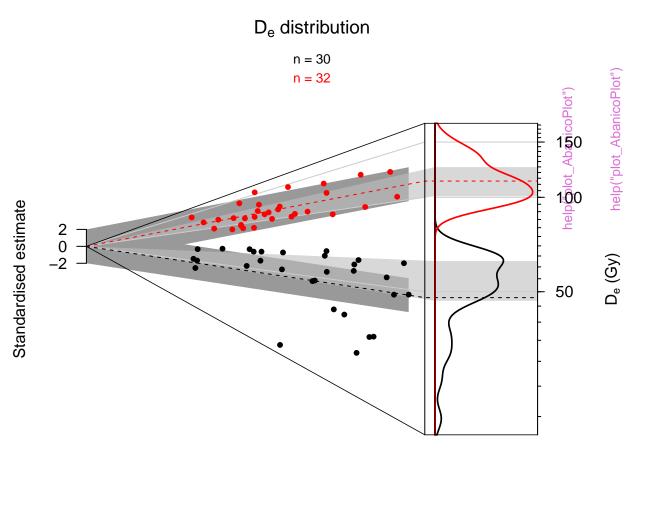


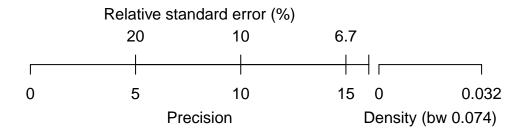






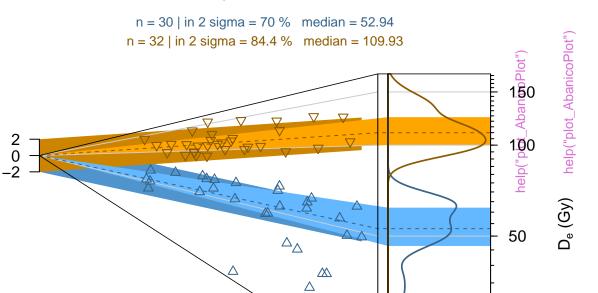


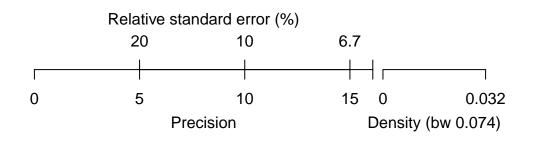


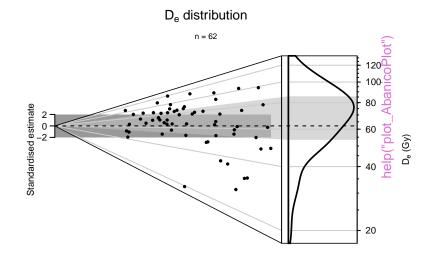


D_e distribution

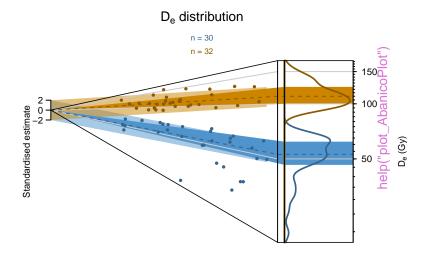
Standardised estimate



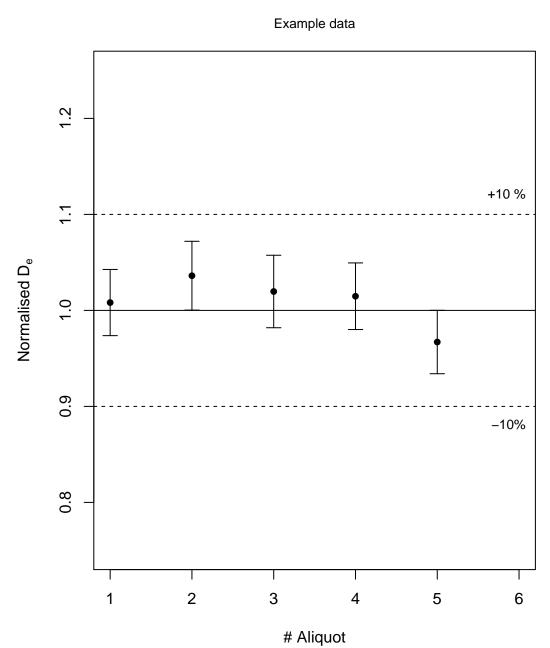




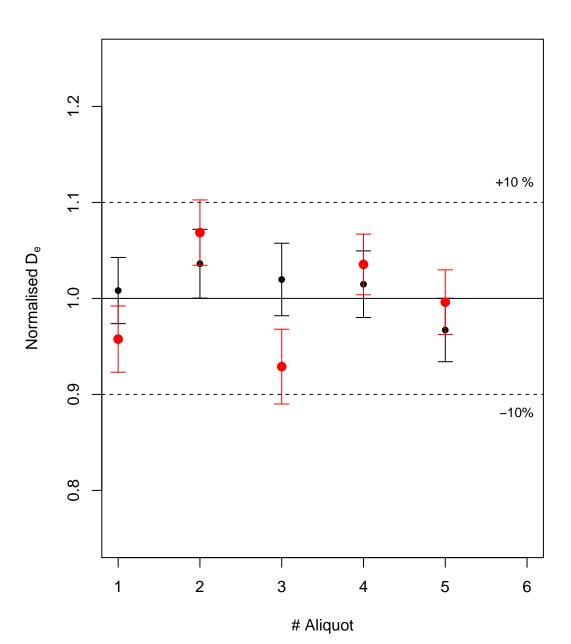


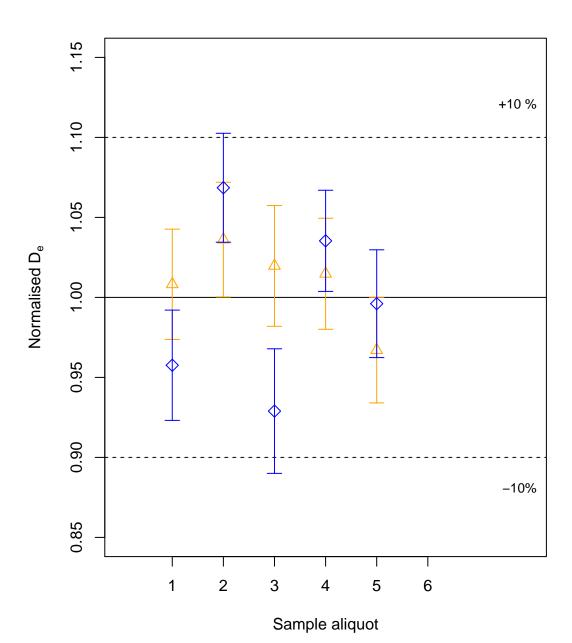


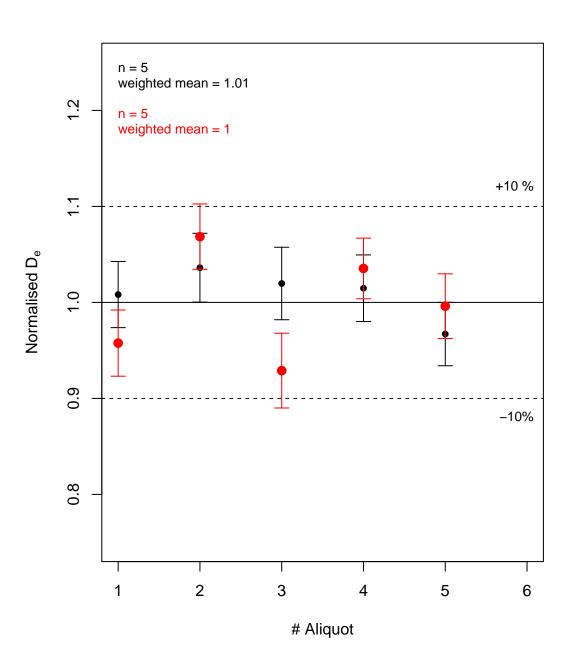
















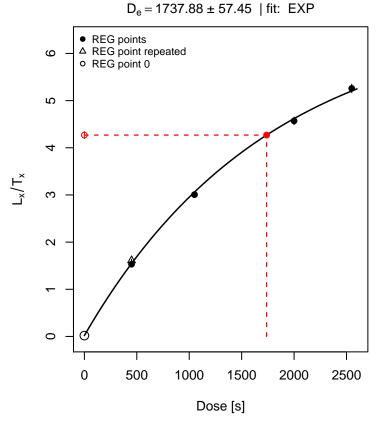
Preheat temperature [°C]

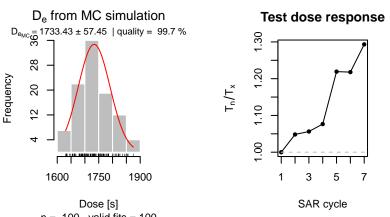




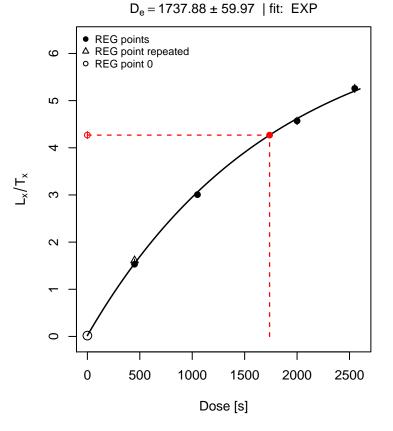


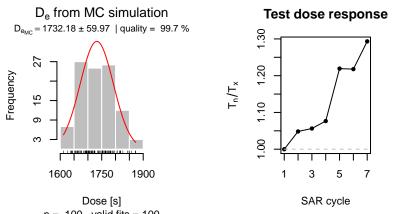
Growth curve



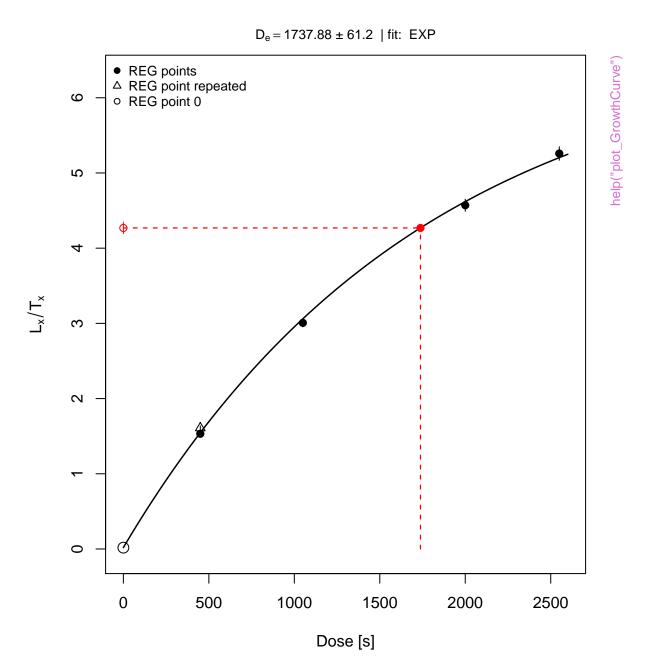


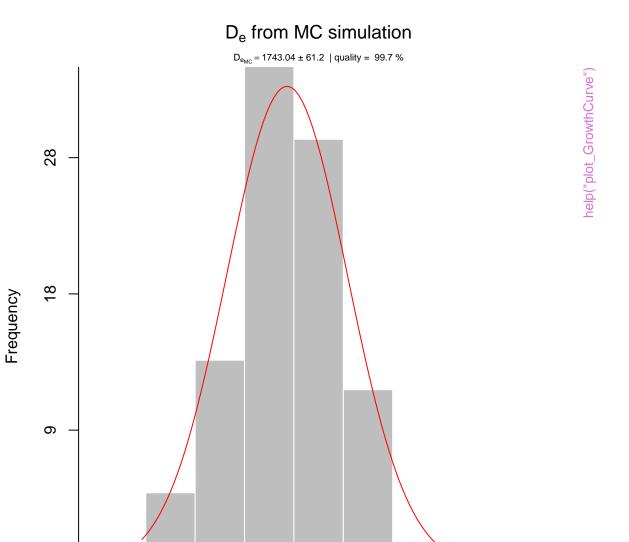
Growth curve

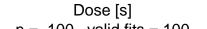




Growth curve







Test dose response



SAR cycle

Histogram



Histogram of De-values

Example data set







Dose distribution





 D_{e} distribution



 D_{e} distribution





D_{e} distribution





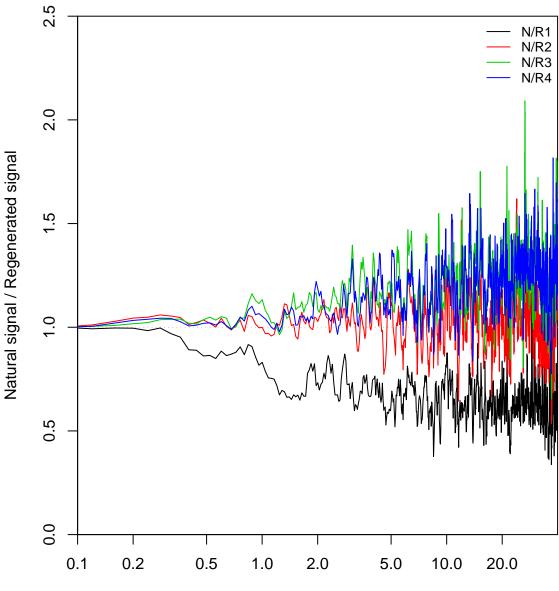
NR(t) Plot



help("plot_NRt")



NR(t) Plot help("plot_NRt")



Time [s]





Time [s]

NR(t) Plot help("plot_NRt") N/R1 N/R2 N/R3 N/R4



TnTx(t) Plot





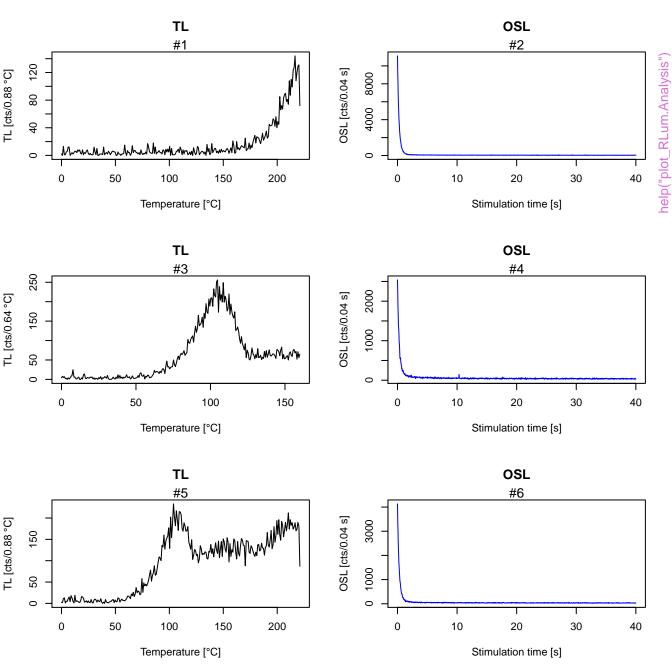


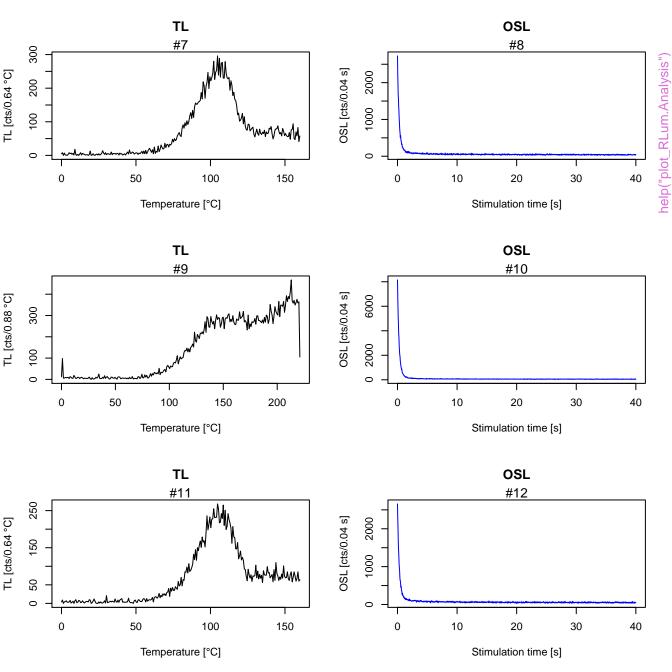


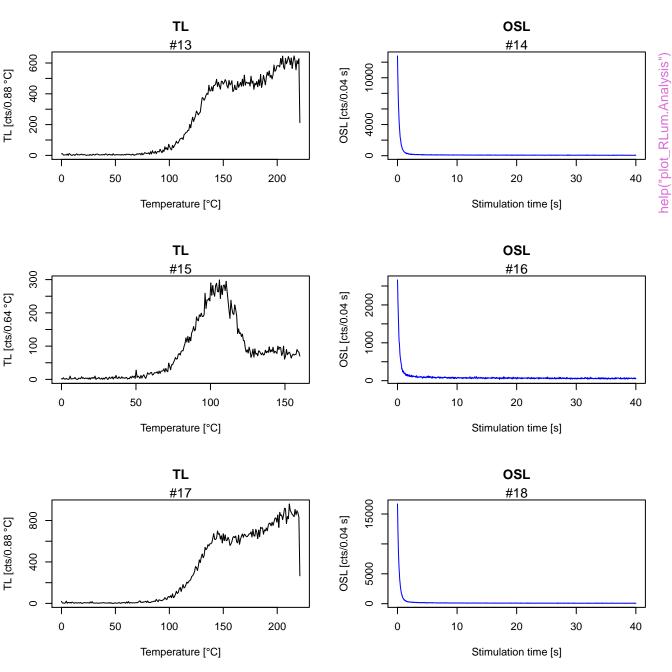


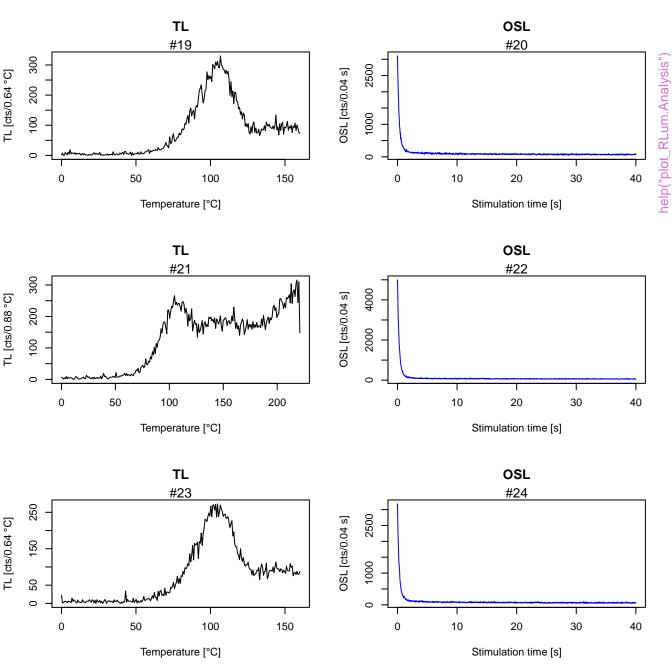


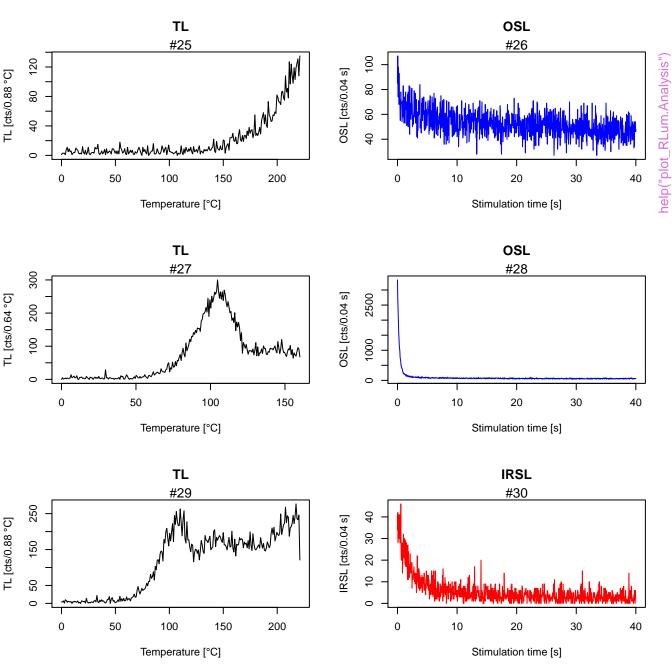




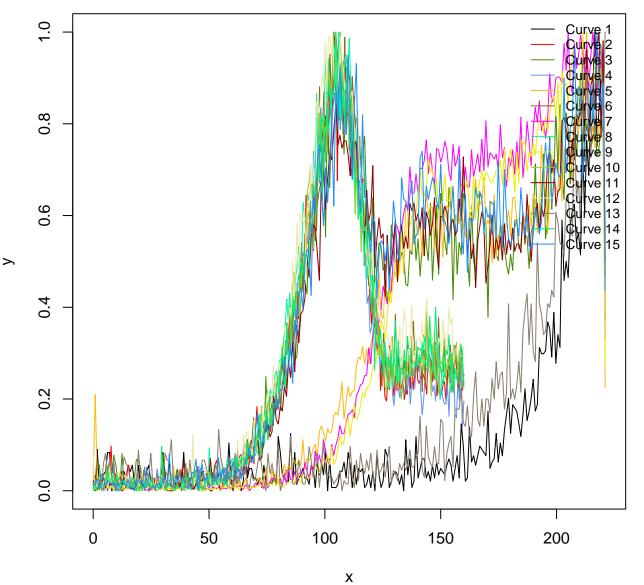








TL combined



unkown curve type



RLum.Data.Image

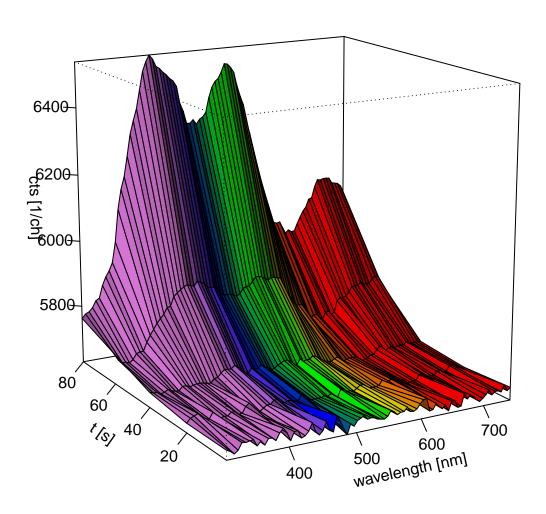


RLum.Data.Spectrum



help("plot_RLum.Data.Spectrum")

RLum.Data.Spectrum



RLum.Data.Spectrum



unkown curve type





0.0

0.1

0.2

p0

0.3

0.4











Precision



Precision













Precision





Data precision









D_e distribution













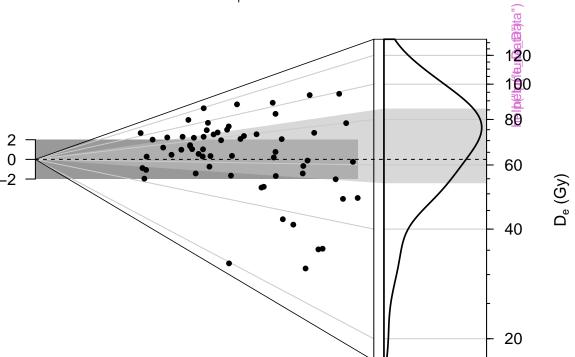
Density

OSL



D_{e} distribution



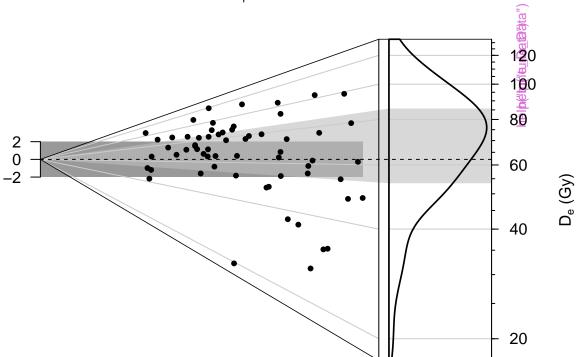


Standardised estimate



D_{e} distribution





Standardised estimate

