S4 Class OBJECT STRUCTURE R Package Luminescence version >= 0.9.24
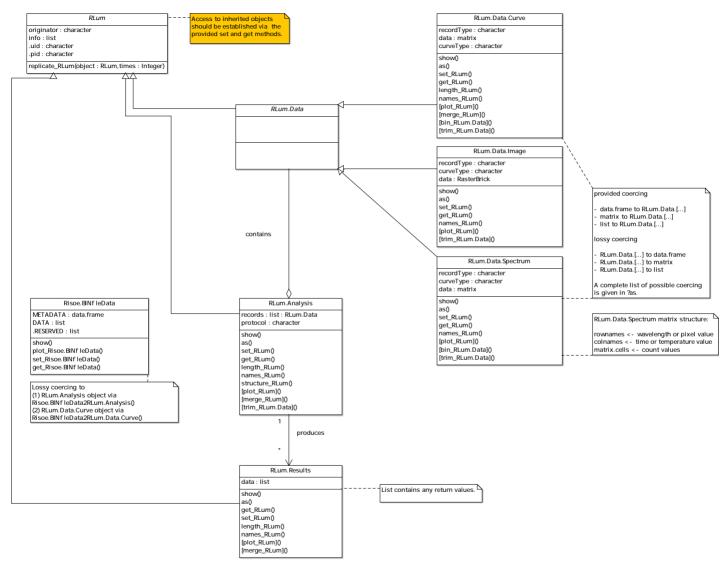
[version: 2024-03-11 | R Luminescence Developers | developers@r-luminescence.org]

RLum

originator : character
info : list
.uid : character
.pid : character

replicate_RLum(object : RLum, times : Integer)

Access to inherited objects should be established via the provided set and get methods.

RLum.Data.Curve

recordType : character
data : matrix
curveType : character

show()
as()
set_RLum()
get_RLum()
length_RLum()
names_RLum()
[plot_RLum]()
[merge_RLum]()
[bin_RLum.Data]()
[trim_RLum.Data]()

RLum.Data

RLum.Data.Image

recordType : character
curveType : character
data : RasterBrick

show()
as()
set_RLum()
get_RLum()
names_RLum()
[plot_RLum]()
[trim_RLum.Data]()

provided coercing

- data.frame to RLum.Data.[...]
- matrix to RLum.Data.[...]
- list to RLum.Data.[...]

lossy coercing

- RLum.Data.[...] to data.frame
- RLum.Data.[...] to matrix
- RLum.Data.[...] to list

A complete list of possible coercing is given in ?as.

RLum.Data.Spectrum

recordType : character
curveType : character
data : matrix

show()
as()
set_RLum()
get_RLum()
names_RLum()
[plot_RLum]()
[bin_RLum.Data]()
[trim_RLum.Data]()

RLum.Data.Spectrum matrix structure:

rownames <- wavelength or pixel value
colnames <- time or temperature value
matrix.cells <- count values

contains

Risoe.BINfileData

METADATA : data.frame
DATA : list
.RESERVED : list

show()
plot_Risoe.BINfileData()
set_Risoe.BINfileData()
get_Risoe.BINfileData()

Lossy coercing to
(1) RLum.Analysis object via
Risoe.BINfileData2RLum.Analysis()
(2) RLum.Data.Curve object via
Risoe.BINfileData2RLum.Data.Curve()

RLum.Analysis

records : list : RLum.Data
protocol : character

show()
as()
set_RLum()
get_RLum()
length_RLum()
names_RLum()
structure_RLum()
[plot_RLum]()
[merge_RLum]()
[trim_RLum.Data]()

1

produces

*

RLum.Results

data : list

show()
as()
get_RLum()
set_RLum()
length_RLum()
names_RLum()
[plot_RLum]()
[merge_RLum]()

List contains any return values.

Methods given in brackets "[]" are not S4-methods but plain R functions written for these objects.

For most of the presented S4-methods and related functions S3-generics have been implemented. For a complete list see: ?methods_RLum