Package 'RLumCarlo' February 16, 2017

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RLumCarlo-package

Package: & RLumCarlo Type: & Package Version: & 0.0.1 Date: & 2017-01-31 License: & GPL-3

Description

Package: RLumCarlo
Type: Package
Version: 0.0.1
Date: 2017-01-31
License: GPL-3

Author(s)

Authors

calc_RLumCarlo

Plot results from Monte-Carlo simulations with RLumCarlo

Description

Plot results from Monte-Carlo simulations with RLumCarlo

Usage

```
calc_RLumCarlo(results)
```

Arguments

results array:

Value

This function returns a data. frame

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Function version

```
0.0.1 [2017-01-27]
```

Author(s)

Johannes Friedrich, University of Bayreuth (Germany)

plot_RLumCarlo

Plot results from Monte-Carlo simulations with RLumCarlo

Description

Plot results from Monte-Carlo simulations with RLumCarlo

Usage

```
plot_RLumCarlo(results, times = NULL, norm = FALSE, legend = FALSE,
   add = FALSE, ...)
```

Arguments

```
results data.frame
times vector (with default):
norm character (with default):
legend logical (with default):
add logical (with default):
... further arguments
```

Value

This function returns a graphical output

Function version

```
0.0.1 [2017-01-27]
```

Author(s)

Johannes Friedrich, University of Bayreuth (Germany)

run_MC_CW_IRSL

run_MC_CW_IRSL

Run Monte-Carlo simulation for CW-IRSL

Description

Run Monte-Carlo simulation for CW-IRSL

Usage

```
run_MC_CW_IRSL(A, rho, times, clusters = 10, r = NULL, N_e = 200,
  method = "par", output = "signal", ...)
```

Arguments

A	numeric
rho	numeric
times	vector (with default)
clusters	numeric (with default):
r	numeric (with default)
N_e	numeric (with default):
method	character (with default):
output	character (with default):
	further arguments

Value

This function returns a list.

Function version

```
0.0.1 [2017-01-31]
```

Author(s)

Johannes Friedrich, University of Bayreuth (Germany)

References

Pagonis 2017

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Examples

run_MC_ISO

Run Monte-Carlo simulation for isothermal measurements

Description

Run Monte-Carlo simulation for isothermal measurements

Usage

```
run_MC_ISO(A, rho, times, clusters = 10, r = NULL, N_e = 200,
  method = "par", output = "signal", ...)
```

Arguments

A	numeric
rho	numeric
times	vector (with default)
clusters	<pre>numeric (with default):</pre>
r	numeric (with default)
N_e	<pre>numeric (with default):</pre>
method	character (with default):
output	character (with default):
	further arguments

Value

This function returns a list.

Function version

```
0.0.1 [2017-01-27]
```

run_MC_LM_OSL

Author(s)

Johannes Friedrich, University of Bayreuth (Germany)

References

Pagonis 2017

Examples

run_MC_LM_OSL

Run Monte-Carlo simulation for LM-OSL

Description

Run Monte-Carlo simulation for LM-OSL

Usage

```
run_MC_LM_OSL(A, rho, times, clusters = 10, r = NULL, delta.r = 0.1,
   N_e = 200, method = "par", output = "signal", ...)
```

Arguments A

```
rho
                  numeric
times
                  vector (with default)
clusters
                  numeric (with default):
                  numeric (with default):
                  numeric (with default):
delta.r
                  numeric (with default):
N_e
                  character (with default):
method
                  character (with default):
output
                  further arguments
```

numeric

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Value

This function returns a list.

Function version

```
0.0.1 [2017-01-27]
```

Author(s)

Johannes Friedrich, University of Bayreuth (Germany)

References

Pagonis 2017

run_MC_TL

Run Monte-Carlo simulation for TL

Description

Run Monte-Carlo simulation for TL

Usage

```
run_MC_TL(s, E, rho, r_c, times, clusters = 10, N_e = 200, delta.r = 0.1,
  method = "par", output = "signal", ...)
```

Arguments

```
s
                 list
Ε
                 numeric
rho
                 numeric
                 numeric (with default)
r_c
times
                 vector (with default)
clusters
                 numeric (with default):
                 numeric (with default):
N_e
delta.r
                 numeric (with default):
method
                 character (with default):
                 character (with default):
output
                 further arguments
```

Value

This function returns an array with dimension length(times) x length(r) x clusters

run_MC_TL

Function version

```
0.0.1 [2017-01-27]
```

Author(s)

Johannes Friedrich, University of Bayreuth (Germany)

References

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