

Package: dmnormLR (via r-universe)

September 14, 2026

Title Custom nimble distributions for multivariate normal models that are not full rank

Version 0.0.9003

Date September 14, 2026

Description Custom, non-full rank multivariate normal distributions for nimble. Used for penalized splines, etc.

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Encoding UTF-8

Depends R (>= 4.1.0), nimble

Roxygen list(markdown = TRUE)

Config/roxygen2/version 8.0.0

Config/pak/sysreqs libglpk-dev make libxml2-dev

Repository <https://dsjohnson.r-universe.dev>

Date/Publication 2026-09-14 16:42:59 UTC

RemoteUrl <https://github.com/dsjohnson/dmnormLR>

RemoteRef HEAD

RemoteSha e13fd3f8ba1cbbdd48031eb17421af858e1e5376

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dmnormLR	<i>Custom Multivariate normal distributions for models where the precision matrix is not full rank</i>
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Description

Custom Multivariate normal distributions for models where the precision matrix is not full rank

Usage

```
dmnormLR(x, mean, Q, tau, rank, log = 0)
```

```
rmnormLR(n, mean, Q, tau, rank)
```

Arguments

x	variable
mean	mean vector
Q	Precision matrix, not necessarily full rank
tau	Precision scale parameter
rank	Q matrix rank
log	Return log density
n	Sample size (ignored)

Author(s)

Devin Johnson

get_rank	<i>Calculate the rank of a square matrix</i>
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Description

Return the integer rank of a nonnegative definite square matrix

Usage

```
get_rank(x)
```

Arguments

x	A square matrix
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