Package: powerbrmsINLA (via r-universe)

October 23, 2026

Title Bayesian Power Analysis Using 'brms' and 'INLA'

Version 1.3.0

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Description Provides tools for Bayesian power analysis and assurance calculations using the statistical frameworks of 'brms' and 'INLA'. Includes simulation-based approaches, support for multiple decision rules (direction, threshold, ROPE), sequential designs, and visualisation helpers. Methods are based on Kruschke (2014, ISBN:9780124058880) ``Doing Bayesian Data Analysis: A Tutorial with R, JAGS, and Stan'', O'Hagan & Stevens (2001) <doi:10.1177/0272989X0102100307> ``Bayesian Assessment of Sample Size for Clinical Trials of Cost-Effectiveness'', Kruschke (2018) <doi:10.1177/2515245918771304> ``Rejecting or Accepting Parameter Values in Bayesian Estimation'', Rue et al. (2009) <doi:10.1111/j.1467-9868.2008.00700.x> ``Approximate Bayesian inference for latent Gaussian models by using integrated nested Laplace approximations'', and Bürkner (2017) <doi:10.18637/jss.v080.i01> ``brms: An R Package for Bayesian Multilevel Models using Stan''.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Depends R (>= 4.1.0)

Imports brms (>= 2.19.0), dplyr (>= 1.1.0), ggplot2 (>= 3.4.0), pbapply, rlang (>= 1.1.0), tibble (>= 3.2.0), scales (>= 1.2.0), viridisLite (>= 0.4.0), stats, tools, utils, magrittr (>= 2.0.0)

Suggests INLA (>= 22.05.07), testthat (>= 3.0.0), rmarkdown, knitr, MASS, circular, sn

VignetteBuilder knitr

URL https://github.com/Tony-Myers/powerbrmsINLA

BugReports https://github.com/Tony-Myers/powerbrmsINLA/issues

Additional_repositories https://inla.r-inla-download.org/R/stable

NeedsCompilation no

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Config/pak/sysreqs cmake make libicu-dev

Repository https://tony-myers.r-universe.dev

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RemoteUrl https://github.com/tony-myers/powerbrmsinla

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