Gaussian model for Stochastic volatility

Parametrization

The Gaussian likelihood for stochastic volatility models is defined as:

$$\pi(y|\eta) = \sigma\epsilon$$

where

$$\epsilon \sim \mathcal{N}(0, 1)$$

Link-function

The scale parameter σ is linked to the linear predictor η as:

$$\sigma = \exp(\eta/2)$$

Hyperparameters

None

Specification

- family = stochvol
- Required argument: y.

Hyperparameter spesification and default values

hyper

survival FALSE

discrete FALSE

link default log

pdf stochvolgaussian

Example

In the following example we specify the likelihood for the stochastic volatility model to be Gaussian

Notes

None