## 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 squared scale parameter  $\sigma$  is linked to the linear predictor  $\eta$  as:

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

## 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