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

```
theta1
```

```
name precision
short.name prec
initial 4
fixed FALSE
prior loggamma
param 1 1e-05
theta2
```

name GEVparametershort.name gevinitial 0fixed FALSEprior gaussian

param 0 6.25

survival FALSE

discrete FALSE

Example

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

Notes

None