Independent random noise model

Parametrization

This model simply defines \S to be a vector of independent and Gaussian distributed random variable with precision τ :

 $\pi(\mathbf{x}|\tau) \propto \tau^{n/2} \exp\left\{-\frac{\tau}{2}\mathbf{x}^T\mathbf{I}\mathbf{x}\right\}$

where I is the identity matrix.

Hyperparameters

The precision parameter τ is represented as

$$\theta = \log \tau$$

and the prior is defined on θ .

Specification

The independent model is specified inside the f() function as

```
f(<whatever>,model="iid", hyper = <hyper>)
```

Hyperparameter spesification and defaults

hyper

```
theta
```

```
name precision
short.name prec
initial 4
fixed FALSE
prior loggamma
param c(1, 1e-04)

constr FALSE
nrow.ncol FALSE
augmented FALSE
aug.factor 1
aug.constr NULL
n.div.by NULL
n.required FALSE
```

set.default.values FALSE

Example

Notes

None