Independent random noise model

Parametrization

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

 $\pi(\mathbf{x}| au) \propto au^{n/2} \exp\left\{-rac{ au}{2}\mathbf{x}^T\mathbf{I}\mathbf{x}
ight\}$

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 ${\tt f}$ () function as

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

Hyperparameter spesification and default values

hyper

```
theta
```

pdf indep

```
name log precision
         short.name prec
         prior loggamma
         param 1 5e-05
        initial 4
         fixed FALSE
         to.theta function(x) log(x)
         from.theta function(x) exp(x)
constr FALSE
nrow.ncol FALSE
augmented FALSE
aug.factor 1
aug.constr
n.div.by
n.required FALSE
set.default.values FALSE
```

Example

Notes

None