

bayes: set up for Bayesian inference

Syntax: `bayes [<option> | <mod par #>] {<prior type>
<hyperparameters>}`

where `<option> ::= [off | on | cons]`. If a parameter number is given as the first argument then this command sets up the prior for the specified model parameter. The supported priors are ``cons'` and ``exp'`. The `cons` prior requires no hyperparameters and the `exp` prior requires a hyperparameter giving the exponential decay scale. The log prior for the `exp` case is taken to be $-\text{param}/\text{hparam} - \log(\text{hparam})$, where `param` is the fit parameter value and `hparam` the hyperparameter. If the first argument to the ``bayes'` command is not a parameter number then one of the options ``off'`, ``on'`, ``cons'` is used. The first two turn Bayesian inference off or on, while ``cons'` turns Bayesian inference on and gives all parameters a constant prior.