

 $\sigma_{left}^2 \longrightarrow x \leq break$ 

 $\sigma_{right}^2 \longrightarrow x > break$ 

 $\sigma^2$ 

 $f(x) = \beta_1 x + \beta_2$ 

 $f(x) = \beta_{1a}x + \beta_{2a} \longrightarrow x \le break$ 

 $f(x) = c \ x^p$ 

A two regimes linear model. Rate changes linearly with the value of the predictor trait,

the 'phylofx' package.

value of the predictor trait.

trait.

but the linear function shifts at a threshold A power function model. Rate changes over a

A homogeneous rate throughout the tree.

Two homogeneous rate regimes with shifts

ocurring at a threshold value of the predictor

A linear model. Rate changes linearly with the



 $f(x) = c_1 + \frac{c_2}{1 + e^{\beta_1} (\beta_2 - x)}$ 

power function of the value of the predictor trait. A sigmoid function model. This is the most flexible function implemented by default on

Predictor trait