

lme4ord model

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The matrix-valued linear predictor has entries given by,

$$\eta_{ij} = \sum_{k=1}^p x_{ik}\beta_k + b_{row,i} + b_{col,j} + \sum_{l=1}^d u_{il}v_{jl} \quad (1)$$

with random parameters,

$$b_{row,i} \sim \mathcal{N}(0, \theta_{row}) \quad (2)$$

$$b_{col,j} \sim \mathcal{N}(0, \theta_{col}) \quad (3)$$

$$v_{jl} \sim \mathcal{N}(0, \theta_{axes}) \quad (4)$$

and where the x 's are known and the β 's and u 's are constant parameters.