Transformations: auite often, effects (and errors too) are multiplicative, i.e., Y; ≈ μ· α; β; μ, α;, β; > 0 The factorial model would need interaction term. However, $\log (Y_{ij}) \approx \log (\mu) + \log (\alpha_i) + \log (\beta_i)$ $\widetilde{\alpha} \qquad \widetilde{\lambda}. \qquad \widetilde{\beta}.$ => main effects model will work well. => interaction is often a question of the scale of the response!