A Continuous Grazing Experiment

Brien and Demétrio (1999) discuss the analysis of continuous grazing trials based on a randomized complete block design. The sets for such experiments, when an animal variable is to be analysed, are animal, plots and treatments and the tiers are $\mathcal{F}_{\text{animals}} = \{\text{Classes}, \text{Animals}\}$, $\mathcal{F}_{\text{plots}} = \{\text{Blocks}, \text{Plots}\}$ and $\mathcal{F}_{\text{treatments}} = \{\text{Treatments}\}$. These experiments involves two randomizations — treatments to plots and plots to animals — and they are composed, as shown in the randomization diagram in Figure 1. In spite of this, they are not two-phase experiments — they are single stage.
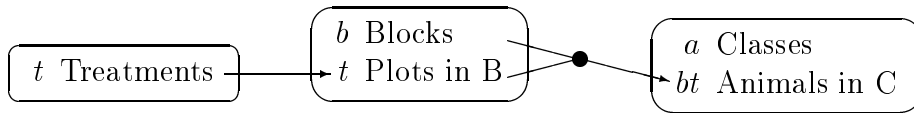

Figure 1: Composed randomizations in a continuous grazing experiment