

# Optimalitätsbedingungen

$$x_j^* \left( \sum_{i=1}^m a_{ij} v_i^* - g_j \right) = 0 \quad (j = 1, \dots, q)$$

$$v_i^* \left( \sum_{j=1}^q a_{ij} x_j^* - b_i \right) = 0 \quad (i = 1, \dots, m)$$

$$\sum_{j=1}^q a_{ij} x_j^* < b_i \Rightarrow v_i^* = 0$$

$$v_i^* > 0 \Rightarrow \sum_{j=1}^q a_{ij} x_j^* = b_i$$

$$\sum_{i=1}^m a_{ij} v_i^* > g_j \Rightarrow x_j^* = 0$$

$$x_j^* > 0 \Rightarrow \sum_{i=1}^m a_{ij} v_i^* = g_j$$