



M - cel. št. nabranih stanj
 N - skazi zažitev

$$\begin{pmatrix} -I \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \end{pmatrix} \leftarrow G_0 \begin{bmatrix} -M & 0 & 0 & 0 & 0 & M \\ M & -M & 0 & 0 & 0 & 0 \\ 0 & N & -M & 0 & M & -N \\ 0 & 0 & M & -M & 0 & 0 \\ 0 & 0 & 0 & M & -M & 0 \\ 0 & M & -N & 0 & 0 & N & -M \end{bmatrix} \begin{bmatrix} U_1 \\ U_2 \\ U_3 \\ U_4 \\ U_5 \\ U_6 \end{bmatrix}$$

$$|I_H| = G_0 (U_2 - U_5) / N = G_0 N (U_1 - U_4)$$

$$U_1 = U_2 \quad I_2 = M G_0 (U_1 - U_2) = 0$$

$$U_4 = U_5 \quad I_5 = M G_0 (U_4 - U_5) = 0$$

$$I_3 = G_0 (N U_1 + (M - N) U_4 - M U_3) = 0$$

$$U_3 = \frac{N U_1 + (M - N) U_4}{M}$$

$$I_6 = G_0 (N U_4 + (M - N) U_1 - M U_6) = 0$$

$$U_6 = \frac{N U_4 + (M - N) U_1}{M}$$

$$U_H = U_2 - U_6 = U_1 - U_6 = \frac{N (U_1 - U_4)}{M}$$

$$U_H = R_H I = \frac{N}{M} (U_1 - U_4) = G_0 N (U_1 - U_4) / R_H$$

$$R_H = \frac{1}{M G_0}$$

$$U_2 - U_3 = R_2 I = R_2 N G_0 (U_1 - U_4)$$

$$U_1 - U_3 = \frac{M U_1 - N U_1 - (M - N) U_4}{M} = \frac{(M - N)}{M} (U_1 - U_4)$$

$$R_2 N G_0 (U_1 - U_4) = \frac{M - N}{M} (U_1 - U_4)$$

$$R_2 = \frac{1}{G_0} \frac{M - N}{M N} = \frac{1}{G_0} \left(\frac{1}{N} - \frac{1}{M} \right) = R_2$$

$$G_0 < 2e^2/h$$