$$x < 0 \qquad -\sqrt{\frac{-x}{12t}} < -c - \epsilon \qquad \epsilon > 0$$

J_1

$-c \qquad +c$

U_1

P_1

U_1

D_1

D_1

L_1

$-z_0 \qquad \circ\, -c \qquad +c\, \circ \qquad M_1 \qquad +z_0$

L_1

$\Delta U_1 \Delta^{-1}$

$\Delta P_1 \Delta^{-1}$

$\Delta U_1 \Delta^{-1}$

$\Delta L_1 \Delta^{-1}$

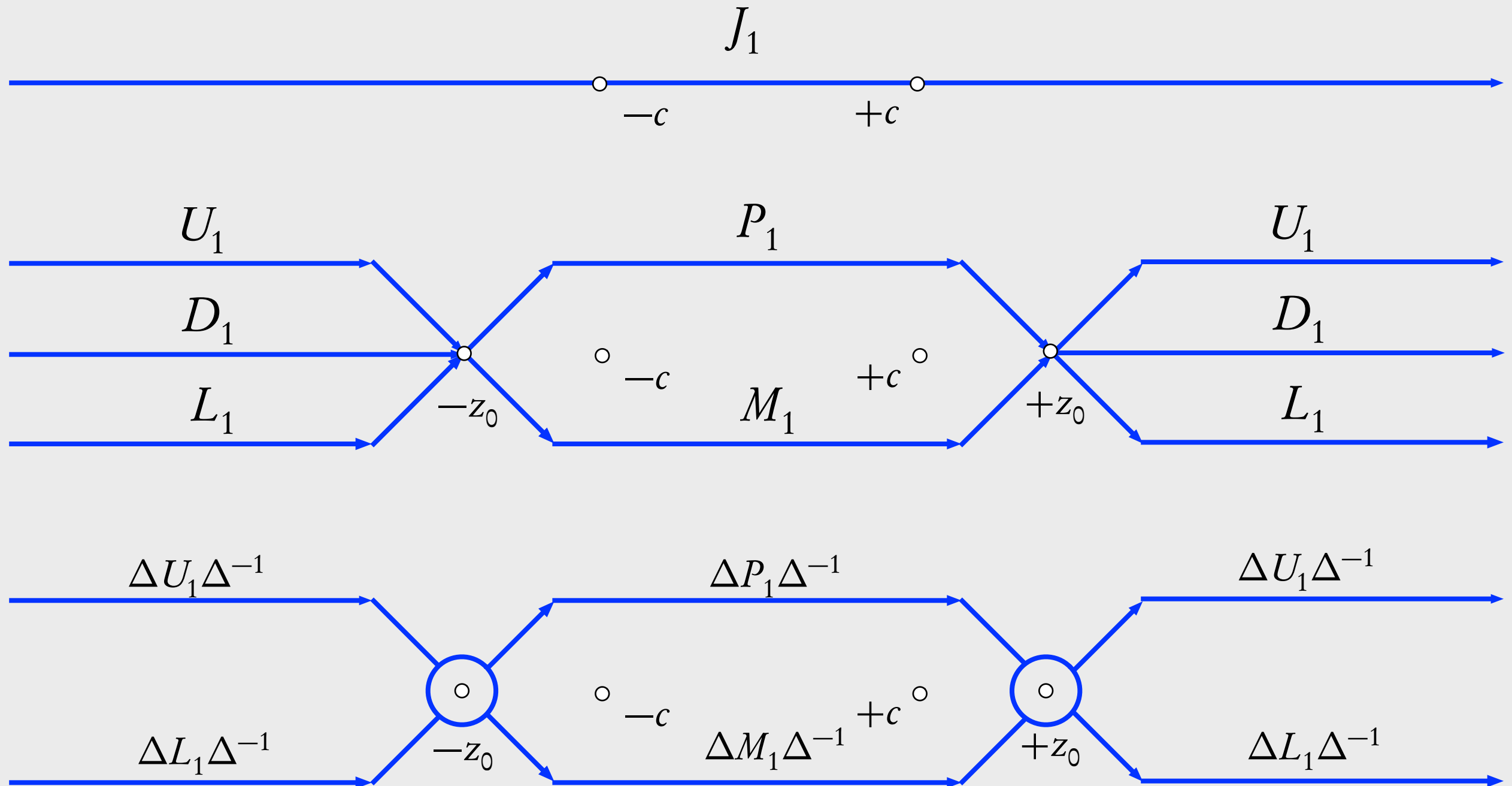$-z_0 \qquad \circ\, -c \qquad \Delta M_1 \Delta^{-1} \quad +c\, \circ \qquad +z_0$

$\Delta L_1 \Delta^{-1}$

The LDU-factorization fails on $[-c, c]$.

$$x \geq -2c^2 t$$

J_2

$-c$ $+c$

P_2

M_2

$-c$ $\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$ J_2 $\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$ $+c$

P_2

M_2

P_2

M_2

J_2

P_2

M_2