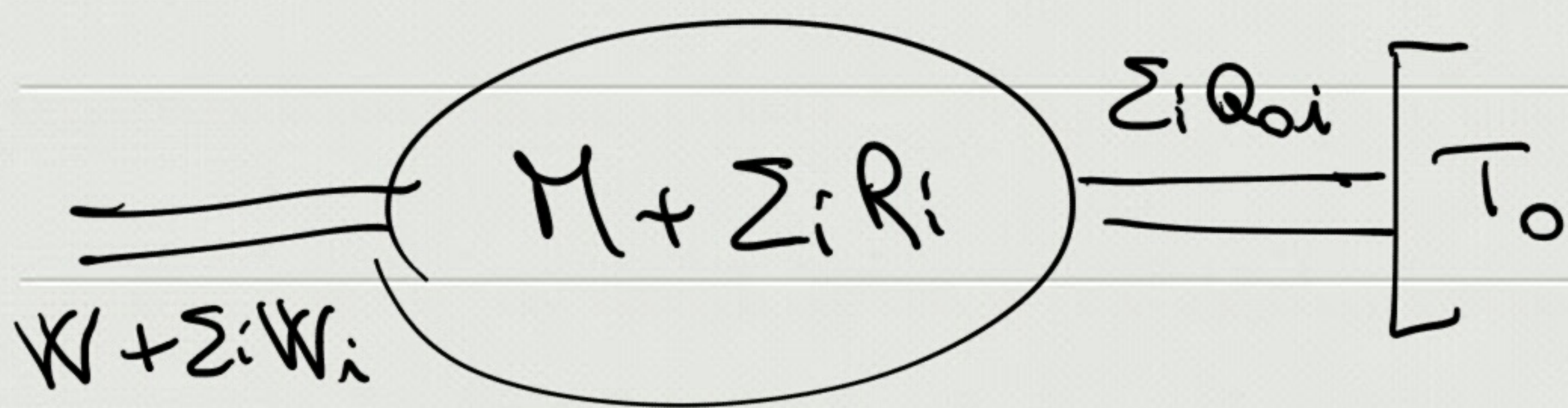
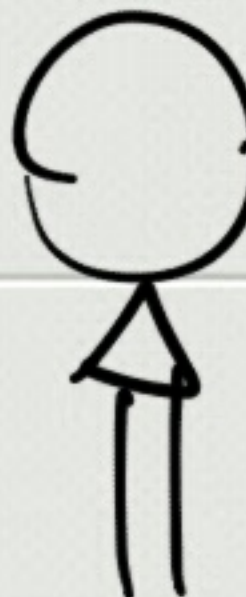


$$\left. \begin{array}{l} \frac{Q_1}{T_1} + \frac{Q_2}{T_2} \leq 0 \\ \text{w. } \geq 0 \\ \text{never } < 0 \end{array} \right\} \Rightarrow \frac{Q_i}{T_i} + \frac{Q_{0i}}{T_0} = 0$$

$$\Rightarrow \frac{Q_{0i}}{T_0} = \frac{Q_i}{T_i} \Rightarrow \frac{1}{T_0} \sum_i Q_{0i} = \sum_i \frac{Q_i}{T_i}$$



2° p.T.D \Rightarrow  \Rightarrow $T_0 \Rightarrow \boxed{\sum_i Q_{oi} \leq 0}$

$\frac{1}{T_0} \sum_i Q_{oi} = \sum_i \frac{Q_i}{T_i}$ \Rightarrow $\boxed{\sum_i \frac{Q_i}{T_i} \leq 0}$

\uparrow
0

M è rev. $\Rightarrow \sum_i \frac{Q_i}{T_i} \geq 0 \Rightarrow \boxed{\sum_i \frac{Q_i}{T_i} = 0}$

M è irrev. $\Rightarrow \boxed{\sum_i \frac{Q_i}{T_i} < 0}$

Numero infinito di serbatoi \Rightarrow

$\boxed{\oint \frac{\delta Q}{T} \leq 0} \Rightarrow \begin{cases} \text{rev.} & \oint \frac{\delta Q}{T} = 0 \\ \text{irrev.} & \oint \frac{\delta Q}{T} < 0 \end{cases}$