

PZ.E11.C

$$\begin{cases} L_0 = 0L_0 \mid 1L_1 \\ L_1 = 0L_1 \mid 1L_0 \mid \lambda \end{cases}$$

$$L_1 = \underbrace{0L_1}_{\substack{\alpha \\ \lambda \notin L(\alpha)}} \mid \underbrace{1L_0 \mid \lambda}_B \xrightarrow{\text{ARDEN}} L_1 = 0^*(1L_0 \mid \lambda) = 0^*1L_0 \mid 0^*$$

$$\begin{aligned} L_0 &= 0L_0 \mid 1L_1 = 0L_0 \mid 1(0^*1L_0 \mid 0^*) = 0L_0 \mid 10^*1L_0 \mid 10^* \\ &= \underbrace{(0 \mid 10^*1)}_{\substack{\alpha \\ \lambda \notin L(\alpha)}} L_0 \mid \underbrace{10^*}_B \xrightarrow{\text{ARDEN}} L_0 = (0 \mid 10^*1)^* 10^* \end{aligned}$$

$$ER = (0 \mid 10^*1)^* 10^*$$