DEMA 6°: Minimum visk Exoute l_= \lambda_1 P(\omega_1) P(\times | \omega_1) P(\times | \omega_2) P(\times | \omega_2) =) | 4 = P(w2) P(x(W2)] l2 = λ,2 P(w,) P(x(w,) + λ22 P(w2) P(x(w2) $=) | l_2 = \frac{1}{2} P(\omega_1) P(x|\omega_1) |$ Office $L = \begin{pmatrix} \lambda_{11} & \lambda_{12} \\ \lambda_{21} & \lambda_{22} \end{pmatrix} = \begin{pmatrix} 0 & 0.5 \\ 1 & 0.5 \end{pmatrix}$ · Av lielz arroqueize W. 3 To opio Xo Epiekeras

600 li=lz $l_1 = l_2$ => $P(w_2) P(x|w_2) = \frac{1}{2} P(w_1) P(x|w_1)$ $= \frac{\frac{1}{2^{2}} e^{-\frac{1}{2 \cdot 4}}}{e^{-\frac{1}{2} \cdot 4}} = \frac{1}{2} \frac{1}{2} = \frac{$ $= \left| \frac{x_0 \neq 0}{2} \left(\frac{1}{2} e^{-\frac{x_0}{8}} \right) = \ln \left(e^{-\frac{x_0}{2}} \right) \right|$ =) $-\frac{x_0^2}{0}$ - lu 2 = $-\frac{x_0^2}{0}$ $= \frac{1}{2} - \frac{2}{100} - \frac{2}{100} = -4 \times \frac{2}{100}$ =) $3x_0^2 = 8\ln 2$ =) $|x_0 = \sqrt{8\ln 2}$