$\log P(x_1 \cdots x_n | u) P(u)$   $= \log \lambda - \lambda u + \frac{2}{\xi} \times \log u - u \log e - \log x_i!$   $\frac{\partial \log P(x_1 \cdots x_n | u) P(u)}{\partial u} = -\lambda + \frac{2}{\xi} (\frac{x_i'}{u} - 1)$ set  $\frac{\partial \log P(x_1 \cdots x_n | u) P(u)}{\partial u} = 0$ , we have  $\frac{\partial u}{\partial u} = \lambda + \frac{2}{\xi} \frac{x_i'}{u} + \lambda + \frac{2}{\xi} \frac{x_i'}{u} + \lambda$