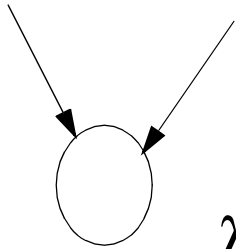


## $\lambda$ -messages for a terminal node.



$$\lambda(x) = \lambda_x(x) = 1 \quad (\text{EQ 1})$$

$$\lambda_y(u_i) = \sum_x \lambda(x) \sum_{u_k: (k \neq i)} P\{x|u\} \prod_{k \neq i} \pi_X(u_k) \quad (\text{EQ 2})$$

$$= \sum_{u_k: (k \neq i)} \sum_x P\{x|u\} \prod_{k \neq i} \pi_X(u_k)$$

$$= \sum_{u_k: (k \neq i)} \prod_{k \neq i} \pi_X(u_k) = P\left\{e_{U_k X}^-\right\}$$

$P\{e_{XY}^-\} = 1$  when there is no evidence at all...