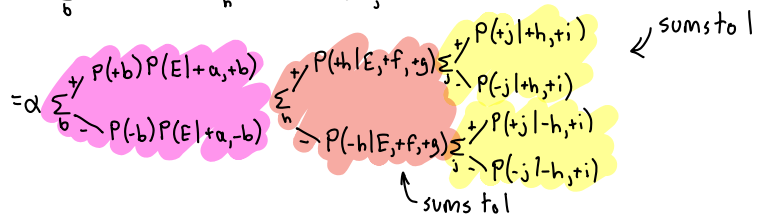
$P(E=+e \mid +a,+c,+d,+f,+g,+i) = \alpha\, P(E,+a,+c,+d,+f,+g,+i)$

↑ Q B+D = Hidden

$= \alpha \sum_b \sum_h \sum_j P(+a)P(B)P(+c)P(+d) \cdot$
$P(E \mid +a,B)P(+f)P(+g \mid +c,+d) \cdot$
$P(H \mid E,+f,+g)P(+i) \cdot$
$P(J \mid H,+i)$

$= \alpha\, P(+a)P(+c)P(+d)P(+f)P(+i)P(+g \mid +c,+d) \sum_b P(B)P(E \mid +a,B) \sum_h P(H \mid E,+f,+g) \sum_j P(J \mid H,+i)$

$= \alpha \sum_b P(B)P(E \mid +a,B) \sum_h P(H \mid E,+f,+g) \sum_j P(J \mid H,+i)$



$= \alpha\, [0.11 \langle P(+e \mid +a,+b), P(-e \mid +a,+b) \rangle + 0.89 \langle P(+e \mid +a,-b), P(-e \mid +a,-b) \rangle] \cdot$
$[\langle P(+h \mid +e,+f,+g), P(+h \mid -e,+f,+g) \rangle + \langle P(-h \mid +e,+f,+g), P(-h \mid -e,+f,+g) \rangle]$

$= \alpha\, [0.11 \langle 0.14, 0.86 \rangle + 0.89 \langle 0.15, 0.85 \rangle][\langle 0.23, 0.27 \rangle + \langle 0.77, 0.73 \rangle]$

$= \alpha\, [\langle 0.0154, 0.0946 \rangle + \langle 0.1335, 0.7565 \rangle]$

$= \alpha \langle 0.1489, 0.8511 \rangle$ ↙ sums to 1

$P(+e \mid +a,+c,+d,+f,+g,+i) = 14.89\%$