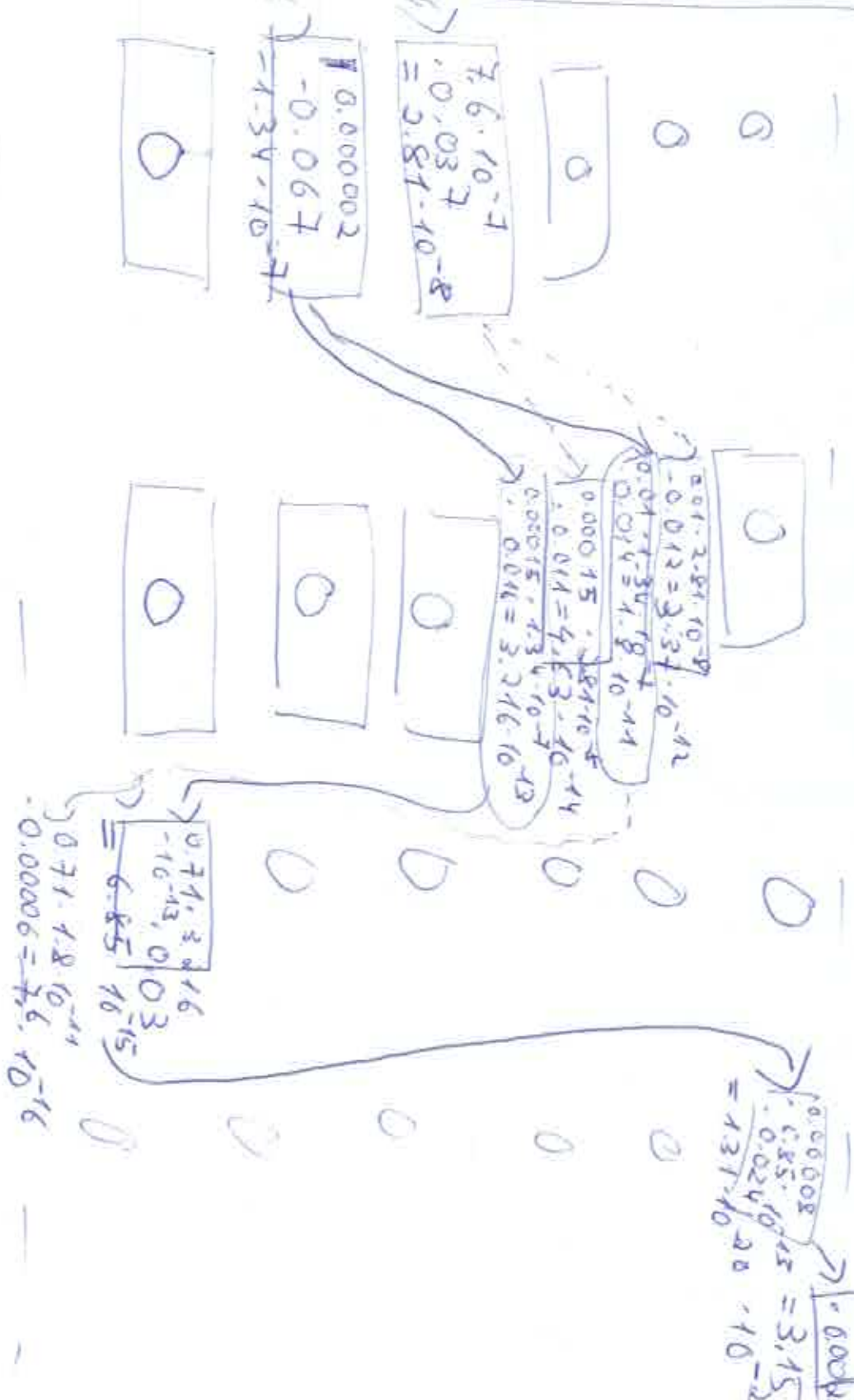


$K_F = \langle 215 \rangle$
 $K_6 = \langle 4JJ \rangle$
 $+5 = \langle VBZ \rangle$
 $+4 = \langle VVS \rangle$
 $+3 = \langle VVB \rangle$
 $+2 = \langle VVP \rangle$
 $+1 = \langle VBE \rangle$
 $K_0 = \langle \langle 5 \rangle \rangle$
 $W(0,0) = 1$

Trump $\langle \rangle$ dead's $\langle \rangle$ are legal $\langle 15 \rangle$



$$v_t(0,0) = 1$$

Taufaktorisierung Spalte 1

$$v_t(x, 1) = v_t(x, \text{Trump}) = p(x_2 | x_0) p(w_1 | x_1) \\ = p(x_2 | \langle s \rangle) p(\text{Trump} | x_1)$$

Rekursion 1. Spalte $j=2 \dots$ also 2 ... \mathbb{E}

$$v_t(x_i, j) = \max_{k=1}^N \int v_t(k_{ij-1}) p(x_k | x_k) \cdot p(w_j | x_i) dx$$

Wart wird immerhalb einer Zelle maximiert

$$v_t(2, 2) = v_t(NRP, \text{deals}) = \max_{k=1}^6 \int v_t(k, \text{Trump}) \cdot p(NRP | x_k) \cdot p(\text{deals} | NRP) dx$$

$$v_t(4, 2) = v_t(NRS, \text{deals}) = 0 \\ = \max \left\{ \begin{array}{l} 1.34 \cdot 10^{-7} \cdot p(NRS | NRP) p(\text{deals} | NRS) \\ 2.81 \cdot 10^{-8} \cdot p(NRS | NR) p(\text{deals} | NRS) \end{array} \right.$$

$$= 3 \cdot 10^{-13}$$

$$v_{it}(5, 2) = v_{it}(VRZ, deals)$$

$$= \max^* \left\{ \begin{array}{l} \cancel{2.81 \cdot 10^{-8}} \cdot 1.34 \cdot 10^{-7} \cdot p(VRZ|NVP) \cdot p(deals|VRZ) \\ 2.81 \cdot 10^{-8} \cdot 0.012 \cdot p(VRZ|NVP) \cdot p(deals|VRZ) \\ - p(VRZ|NVP) \cdot p(deals|VRZ) \end{array} \right.$$

$$= 1.8 \cdot 10^{-11}$$

$$v_{it}(1, 3) = v_{it}(VRZ, ore) = \max_{k=1}^6 v_{it}(k, 2) \cdot p(VRZ|k)$$

$$= \max^* \left\{ \begin{array}{l} \cancel{0.21} \cdot 3.216 \cdot 10^{-13} \cdot p(ore|VRZ) \cdot p(VRZ|VRZ) \\ 1.8 \cdot 10^{-11} \cdot p(VRZ|VRZ) \cdot p(ore|VRZ) \end{array} \right.$$

$$= \cancel{7.669 \cdot 10^{-16}} \cdot 6.85 \cdot 10^{-15} \cdot 0.60006$$

$$v_{it}(6, 4) = v_{it}(j, j, |egal) = 0.00008 \cdot 6.85 \cdot 10^{-15} \cdot 0.024$$

$$= 1.31 \cdot 10^{-20}$$

Abwärts
 $v_{it}(7, 25) = 1.31 \cdot 10^{-20} \cdot 0.0024 = 3.15 \cdot 10^{-23}$