

$$f(I) = (1 - e(p_2'))f(p_1) + f(p_2) - e(p_1)f(p_2')$$

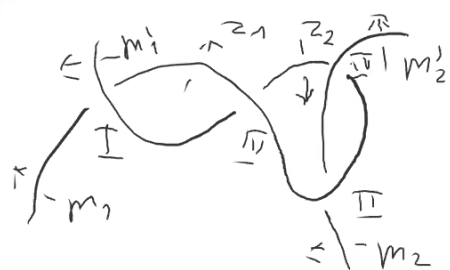
$$f(II) = f(p_1) - e(p_2')f(p_1') + (1 - e(p_1'))f(p_2')$$

$$\begin{pmatrix} 1-t_2 & 1 & 0 & -t_1 \\ 1 & 0 & -t_2 & 1-t_1 \end{pmatrix}$$

A B C

$$A^{-1} = \begin{pmatrix} 0 & 1 \\ 1 & t_2-1 \end{pmatrix}$$

$$V(L)A^{-1}(I-C) = \begin{pmatrix} -t_2 & 1-t_1 \\ t_2^2 - t_2 & -t_1 + (t_1-1)(t_2-1) \end{pmatrix}$$



$$\begin{aligned}
 f(I) &= e(m_1) f(m_2) - f(z_1) + (1 - e(m_1)) f(m_1') \\
 f(II) &= f(m_2) + (1 - e(m_2')) f(z_1) - e(z_1) f(m_2') \\
 f(III) &= (1 - e(z_2)) f(z_1) + e(z_1) f(z_2) - f(m_1') \\
 f(IV) &= -f(z_1) - e(m_2') f(z_2) + (1 - e(z_2)) f(m_1')
 \end{aligned}$$

$$\begin{pmatrix} t_1 & 0 & -1 & 0 & 1-t_1 & 0 \\ 0 & 1 & 1-t_2 & 0 & 0 & -t_1 \\ 0 & 0 & 1-t_2 & t_1 & -1 & 0 \\ 0 & 0 & 1 & -t_2 & 0 & 1-t_2 \end{pmatrix}$$

A

B

C

$$(A, B)^{-1} = \begin{pmatrix} \frac{1}{t_1} & 0 & -\frac{t_2}{t_1(1-t_2)} & -\frac{1}{1-t_2} \\ 0 & 1 & -\frac{t_2(t_2-1)}{1-t_2} & -\frac{t_1(t_2-1)}{1-t_2} \\ 0 & 0 & -\frac{t_2}{1-t_2} & -\frac{t_1}{1-t_2} \\ 0 & 0 & -\frac{1}{1-t_2} & -\frac{t_1}{1-t_2} \end{pmatrix}$$

$$V(L_2) = (A, B)^{-1}(-C) = \frac{1}{q} \begin{pmatrix} 1-2t_2-t_1+t_1t_2 & t_1-1 \\ (t_2-1)t_2 & -t_1 \end{pmatrix}$$

$$V(L_1) = \begin{pmatrix} t_2 & 1-t_1 \\ (1-t_2)t_2 & 1-t_2+t_1t_2 \end{pmatrix}$$