

$$(2x_1+1)(2u_1+1) - 2\Delta_1^0 \cdot \Delta x_{12} = (2x_2+1)(2u_2+1) - 2\Delta_2^0 \cdot \Delta x_{12}$$

$$0 = (2x_2+1)(2u_2+1) - (2x_1+1)(2u_1+1) - 2\Delta_2^0 \Delta x_{12} + 2\Delta_1^0 \Delta x_{12}$$

$$x_2 = x_1 + \Delta x_{12}$$

$$0 = (2x_1+1)(2u_2+1) + 2\Delta x_{12}(2u_2+1) - (2x_1+1)(2u_1+1) + 2\Delta x_{12}(-\Delta_2^0 + \Delta_1^0)$$

$$\frac{1}{2} / 0 = (2x_1+1) \frac{(2u_2+1) - (2u_1+1)}{2(u_2-u_1)} + 2\Delta x_{12}(2u_2+1) + 2\Delta x_{12}(-\Delta_2^0 + \Delta_1^0)$$

$$0 = (2x_1+1)(u_2-u_1) + \Delta x_{12}(2u_2+1) + \Delta x_{12}(-\Delta_2^0 + \Delta_1^0)$$

$$(2x_1+1)u_1 = (2x_1+1)u_2 + \Delta x_{12}(2u_2+1) + \Delta x_{12}(-\Delta_2^0 + \Delta_1^0)$$

$$u_1 = u_2 + \frac{\Delta x_{12}(2u_2+1) + \Delta x_{12}(-\Delta_2^0 + \Delta_1^0)}{2x_1+1} \quad (\text{eq. 16})$$

$$\text{Be } u_2 = (-\Delta_2^0 + \Delta_1^0 + \alpha) x_1$$

$$\Rightarrow u_1 = (-\Delta_2^0 + \Delta_1^0 + 1) x_1 + \Delta x_{12} \frac{2(-\Delta_2^0 + \Delta_1^0) x_1 + 2\alpha x_1 + 1 + (-\Delta_2^0 + \Delta_1^0)}{2x_1+1}$$

$$= (-\Delta_2^0 + \Delta_1^0 + 1) x_1 + \Delta x_{12} \frac{(-\Delta_2^0 + \Delta_1^0) \cdot (2x_1+1) + 2\alpha x_1 + 1}{2x_1+1}$$

$$= (-\Delta_2^0 + \Delta_1^0 + 1) x_1 + \Delta x_{12} (-\Delta_2^0 + \Delta_1^0) + \frac{2\alpha x_1 + 1}{2x_1+1} \cdot \Delta x_{12}$$

$$\text{be } \alpha=1$$

$$= (-\Delta_2^0 + \Delta_1^0 + 1) x_1 + \Delta x_{12} (-\Delta_2^0 + \Delta_1^0) + \Delta x_{12}$$

$$= (-\Delta_2^0 + \Delta_1^0 + 1) x_1 + \Delta x_{12} (-\Delta_2^0 + \Delta_1^0 + 1)$$

$$= (-\Delta_2^0 + \Delta_1^0 + 1) (x_1 + \Delta x_{12})$$

$$u_1 = (-\Delta_2^0 + \Delta_1^0 + 1) x_2$$