

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

$$\Rightarrow x_1 = x_2 - \Delta x_{12}$$

$$\bar{v}_1' = (2x_1+1)(2u_1+1) - 2\Delta x_{12}\Delta_1$$

$$\bar{v}_2' = (2x_2+1)(2u_2+1) - 2\Delta x_{12}\Delta_2$$

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

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

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

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

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

$$\Rightarrow \text{Be } \underline{u_2 = (-\Delta_2 + \Delta_1 + \alpha)(\beta + \gamma)}$$

$$(*) = \frac{2(-\Delta_2 + \Delta_1 + \alpha)(\beta + \gamma) + (-\Delta_2 + \Delta_1)}{2x_1+1}$$

$$= \frac{2(-\Delta_2 + \Delta_1)\beta + 2\alpha\beta + 2\gamma + (-\Delta_2 + \Delta_1)}{2x_1+1}$$

$$= (-\Delta_2 + \Delta_1) \frac{2\beta + 1}{2x_1+1} + \frac{2\alpha\beta + 2\gamma}{2x_1+1}$$

$$\Rightarrow \gamma = \frac{1}{2}$$

$$\Rightarrow \alpha = 1$$

$$= (-\Delta_2 + \Delta_1) \frac{2\beta + 1}{2x_1+1} + \frac{2\beta + 1}{2x_1+1}$$

$$= \frac{(2\beta + 1)(-\Delta_2 + \Delta_1 + 1)}{2x_1+1} = \frac{(2 \cdot (2x_1y + x_1 + y) + 1)(-\Delta_2 + \Delta_1 + 1)}{2x_1+1}$$

$$= (2y+1)(-\Delta_2 + \Delta_1 + 1)$$

$$u_2 = (-\Delta_2 + \Delta_1 + 1) \cdot (2x_1y + x_1 + y) + \frac{1}{2}$$

$$\beta = 2x_1y + x_1 + y$$