

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

Be

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

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

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

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

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

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

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

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

$$\text{Be } u_1 = (-\Delta_2 + \Delta_1 + 1)(2x_1y_1 + x_1 + y_1) :$$

~~$$= (2u_2+1) + 2\Delta x_{12}$$~~

$$= (2u_2+1) + \frac{2(x_2 - x_1)(2u_2+1) + (-\Delta_2 + \Delta_1)}{2x_1+1}$$

$$\frac{2x_2 2u_2 + 2x_2 - 2u_2 x_1 - x_1(-\Delta_2 + \Delta_1)}{2x_1+1}$$

$$= (2u_2+1) + 2\Delta x_{12} \frac{((2x_1+1)(2y_1+1) - 1)^{1/2}}{2x_1+1} \cdot \frac{2 \cdot (-\Delta_2 + \Delta_1 + 1)(2x_1y_1 + x_1 + y_1) + 1 + (-\Delta_2 + \Delta_1)}{2x_1+1}$$

$$= (2u_2+1) + 2\Delta x_{12} \cdot \frac{(-\Delta_2 + \Delta_1 + 1)(2x_1+1)(2y_1+1) - (-\Delta_2 + \Delta_1 + 1) + (1 - \Delta_2 + \Delta_1)}{(2x_1+1)(2u_2+1) + 2\Delta x_{12} \cdot (-\Delta_2 + \Delta_1 + 1)(2y_1+1)} \quad \checkmark$$