@ weighted diamond difference \ Y = (1-x) Y - + (x) Yink

4= 2([1-x] tn,i-12 + x tn,i+12) - = (tn,i-12 + tn,i+12)

 $= \left(\frac{3}{2} - 2\alpha\right) \Upsilon_{n,i-h} + \left(2\alpha - \frac{1}{2}\right) \Upsilon_{n,i+h}$ 

 $= \left(\frac{3}{2} - 2\alpha\right) \Psi_{n,i-1} + \left(2\alpha - \frac{1}{2}\right) \left[\overline{S}_{n,i} + \left(\frac{m_{\lambda}}{\Delta x_{i}} - \left(1 - \alpha\right)\sigma_{ti}\right) \Psi_{n,i-1} + \frac{m_{\lambda}}{\Delta x_{i}} + \alpha \sigma_{ti}\right]$ 

6 again assuming Sni =0

 $\frac{3}{2} - 2\alpha + (2\alpha - \frac{1}{2}) \frac{1/4 - (1-\alpha)\sigma}{1/4 + \alpha\sigma} > 0$ 

1. if \$ <0.5; 2x-2<0

2. if x > 0.75, (3/2-2x) <0

3. if a > 1-1/20, 1/A-(1-x)0<0

# 3. is limiting for the and \$ - 00 is the width of the cell in mean free paths, which must be large than pe in every case

Discord Difference 
$$\Rightarrow \Psi = \frac{1}{2}(\Psi_{in} + \Psi_{o})$$
 $\Psi_{o} = \Psi_{o}, i = h = \frac{1}{2} (\Psi_{in} + \Psi_{o})$ 
 $\Psi_{o} = \Psi_{o}, i = h = \frac{1}{2} (\Psi_{o}, i = h + \Psi_{o}, i = h)$ 
 $\Psi_{o} = 2 (\Psi_{o}, i = h + \Psi_{o}, i = h + \Psi_{o}, i = h)$ 
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