BE 1D growth rate (Gn+1 eikpax -Gn eikpax)/st = Local Gn+1 (eik(p-1) AX + eik(p+1) AX - Leikpax)

$$G^{n+1}-G^n = G^{n+1}C(e^{-ikax} + e^{ikax} - 2)$$
  
 $G^{n+1}(1-C(2cos(kax) - 2)) = G^n$ 

 $\frac{G^{n+1}}{G^n} = \frac{1}{1-C\left(2\cos(kox)-2\right)}$ 

(OS(kox) ranges from -1 to 1, so the rate can be from

1+4c to 1. Since C>0s 1+4c 21 and BE

is unconditionally stable.