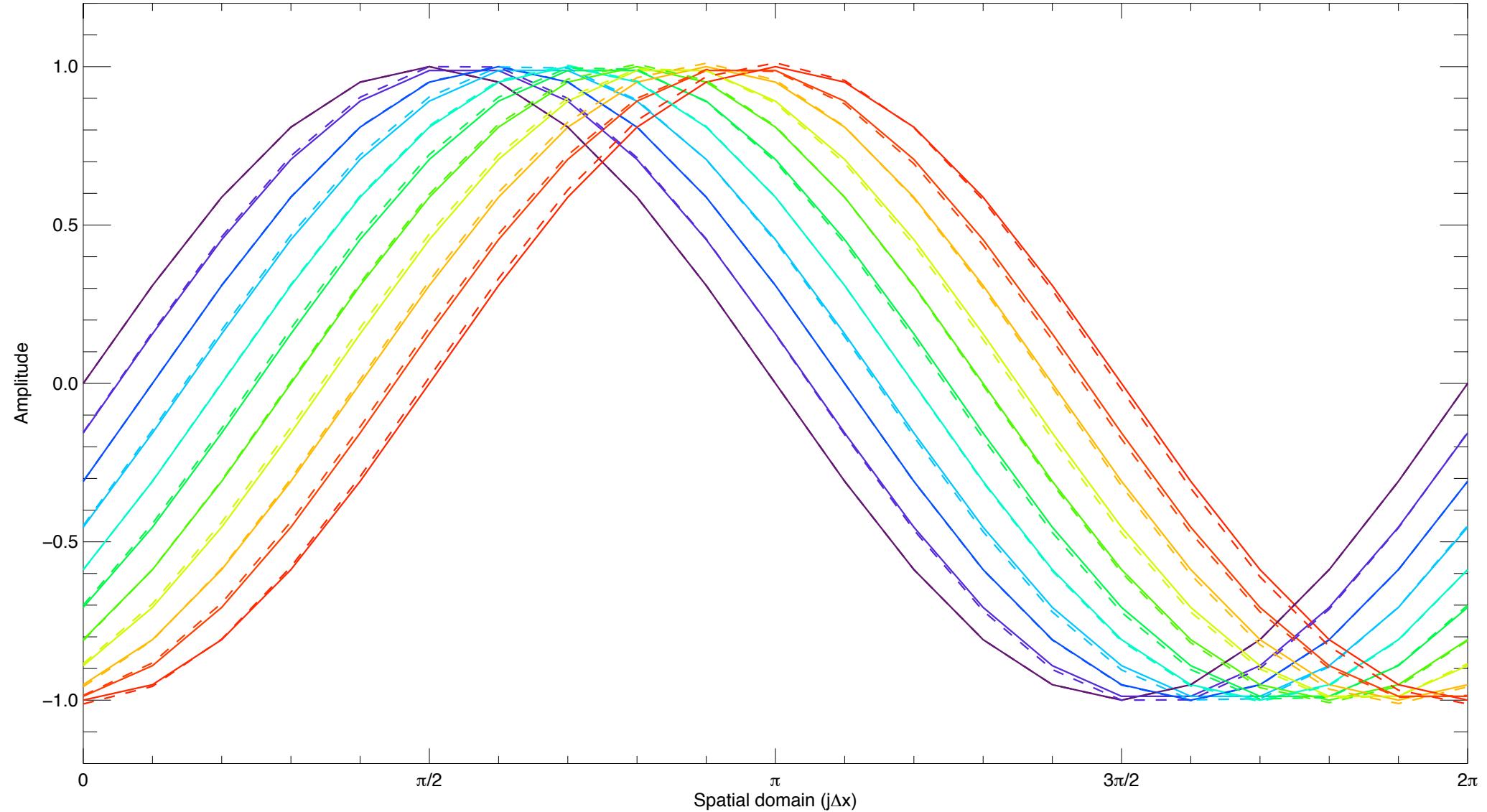


Fig. 1. Advection equation: leapfrog time differencing, 2nd order space differencing; IVP: $u(x,0)=\sin(mx)$, $m=1$, $s=0.5$, $\Delta x=\pi/10$, $dt= 0.1571$, $c=1.0$



nΔt:	
n=0	n=5
n=1	n=6
n=2	n=7
n=3	n=8
n=4	n=9

Colors refer to both solutions