Xn+1 = Xn + Vm At + 1 an At2 Un+1 = Vn + 1 (antan+1) At 2Xn+1 = 1 DXn+1= At 2 Vn 21 = 0 Dun 2 Dun 20 mt1 = - 2V 2Vin 2Xn+12Vn+1) = 2xn 41 2vn+1 2xn+1 2vn+1
2xn 2vn 2xn
2xn $= 1 \left(1 + \frac{\Delta t \partial \alpha_{n+1}}{2 \partial \nu_{n}}\right) - \Delta(t) \cdot O$ $= 1 - \Delta t \frac{\partial^2 v}{\partial x_{n+1} \partial v_{n+1}} = 1$