Review: finance cortoons, basic constructions of chaos cartoan generator Of dy dy dy dy Power-law scaling in the model log ld Yel = log ((dte)He)  $|dY_1| = (Jt_1)^{H_1}$ 1d /2 = (dt2) Hz = Hz log (dtz) 1d Y3 = (dt3) H3 HI = log ld XL) lag (dt) Similarly, Hz = log ld Yz/ 109 (dt2) H3 = Ing (d /3) log (df3) H1 = H2 = H3, this is a unifractal. If not, it is a multitactal

Trading time theorem convert a multitractal cartoon into a unitractal cortoon in toding time, time rescaled as a multifractal. Take the vertical jumps dy, dyz, dyz, ..., dyn of the generator. Find the solution 1d721D+ |d721D+ |d731D+--+ |d7N1D=1 Solve for D. Then the trading time generators are dTs = |dYs |D dTz = ld /z10 dT3 = 1dY310 dTN = IdYNID The trading time expands the time scale during high movement periods, and contracts time during low movement contracts time during low movement

periods.



