= Deraging 1 82 releases AQ= 47 lan 2 heat. => "heformation is playered" ie we camed Kurch about information possenry Other motivation: "Room's Can to H frankittons chip toubles every to everather - De must take into account que efects => beto to use Kum! Basic ideas of Quijos · Quantur tito (quetito) Classical rifo: Eage went; Bit 5=0,1 (2 possis 2761) N 612: 612 story f. . SN = 0. 0, 0. 01, 0. 10, ... 2 poser & Alces!

Quanticles information (3)

6a6 a mil : quantum 6.2 /6> 5/0>, /1>

(qubit) quantum mechanics any superposition possible! 16>= 00>+A11> El > "rupmitely many"

pasablines, N quote: 167 = 20.010.07+ 00.010.017+ ... 2 remplex parameters! How to grantify account of reformation? a Cloudy! Can we copy information? Classicaly: 6 3 agg - 6 : worlds /

Q rech: NO! Why? 10> 5007 10>810> = (10>+10) = opg > = (10>+11>) (10>+(1>) But linearly: (1)+(2) (10)+(1) (1)+(1) (10)+(10)+(10) No- closury Hecore Quantum information council de cloned! Duebons: How can we then store / fransunt 9. 140? How can we deal w/ errors?