Shared Medium. + How Ruly for Sharing the Multiple mode tomenit at the same time, signals collide and both msg are list.

FDMA, TDMA, Muttiplesit? D Frequency Divisin Mytiple Access 0 Time Divioin Mutt. o Code Division Multiplesie

Chrom Patrol. Shaileh Coordinator Ask the corrdiction optical corrdiction gives you time voice voice Colera 2 chanvels Date

Protocol. Deve me for all nodes. Rule-0) When chanvel in quiet, Start toansmitting. + multiple uses stat trans. + backoff. + randomly. eg. 2 nodes. < tors a coin: Head-spect. Tail-squiet.

ROD RO -> quiet, stat sediq. R1. if Mision. use vand no (e.g. too a coin) send/vernain H/T. R2: repeat A1 if collision happens-gani Q: Affr 2 toin b success = 1? moether 1 less than &.

Fs: 10 modes. Rule. 2: repent if failure in previu bourd. Coin tras.  $P_S = 10x \frac{1}{2} \cdot \left(\frac{1}{2}\right)$ After 184 med: Ceri 6 sides dice  $=\frac{10}{10}$ Ps-10\* - (5)9 - 21 5 10

R3. Instead of Coin Toos: Select a random no [I-N] N= # of modes. Howarit if rand=1 else quiet

Now what to do now?

diver search 999th. Bremsend. :000° 1000 elevent: elant : Airen >2 triu. wrost = 10g N) arg. 18g N POST: ~ Wrost · 10g N) arg. 18g N N not below. To be the 1. KA me optimal N is log N step.