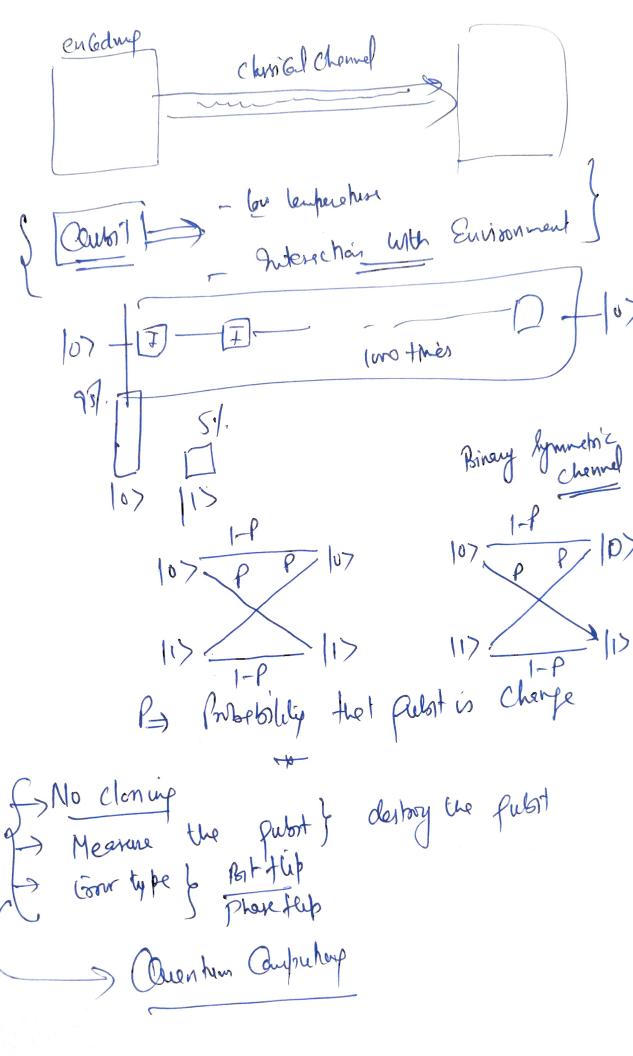
(Sorr Gelechan) 28/4/2024
and Greetian) Classial Redudant Code defect luple Erm & ble Con ausle to Consect it Three boil Gode & Mayonty check up detect only suple Error. (x | 07 + B | 1) (x | 07 + B | 1>) (x | 07 + B | 1>)

theorem (x | 07 + B | 1>) he an have tollowing type of huple bit Eron. bit flip cara :- 10> > 1> \(\frac{1}{2} \) \(\ phase flip Error as well as phase flip Caubinshim of Bolth: Poit flip



3,1) repeit au Gde to Conset Right bot flip Shor 9 bot Gde to Correct Bit flep as Well phase flep 0/107+B11> Sup L 0> 145> (46> 14)= (×107+B11>)10710> × 1000> +B/10> 142>= (x1007+B111>)10>= 18>= X10007+ B/1117 (4)y 0/000>HB/110> 0 10007+B/1117= 14y> = 147 = 2/000>+ B/100>= (x/07+B/17)(x)/00)

10007 (457= 0 /101>+B1011> 1400 +Blm> X 100) 196>= X/1117+B/011> +B|011> 147 = X/0117+ B/111) = (d107+13/12)(0)(11) 145>146> 0/0/07+B/101> < Inlatronol x 1 Qu7 = 148>= x/010>+ B/100> 140) = ×10107+ B/110> 147> = 0/0107+B/1107 = (0/07+B/1)/10)

3rd pulnt 2mm 14y = x (001) + B (110) × 10007+3/111> 145)= 0 (001)+ B/111) 1467 = X/0017+B/101> = 147> = (x/07+B/17)/01) Shan flip Eron H= 1 HZH=X HXH=Z $Z = \begin{bmatrix} 0 & 0 \\ 0 & -1 \end{bmatrix} \quad x = \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}$ 07+B11> Supl 2000