Now the complite for a process is given by A = <fIHslà> so dar process (a) A= <= 1 + 3 | Hs | = > for process (b) things are a bit move complicated $A_{6} = \left(\sqrt{\frac{3}{3}}, \frac{3}{2}, \frac{1}{2}, -\frac{2}{3}, \frac{1}{2}\right) + \left(\sqrt{\frac{3}{3}}, \frac{3}{2}, \frac{1}{2}, \frac{1}{2}\right) + \left(\sqrt{\frac{3}{3}}, \frac{1}{2}, \frac{$ = $\frac{1}{3} < \frac{3}{2}, -\frac{1}{2} | H_s | \frac{3}{2}, -\frac{1}{2} > -\frac{\sqrt{2}}{3} < \frac{3}{2}, -\frac{1}{2} | H_s | \frac{1}{2}, \frac{1}{2} >$ - 12 /2, -2/Hs/2, -17+2/2/2/2/14s/2,-2/ But strong interaction converes strong isospin thus only tenus with the same initial and final ! oning engazi Since the energy states of the strong Hamiltonian are only dependent on Is and not Iss we can write Ab as: Ab= 3 Aa + 2 < 2, -2 | Hs | 2, -2> similarly for process (c) $A_{c} = \left(\left(\frac{1}{3} \left\langle \frac{3}{2}, -\frac{1}{2} \right| - \sqrt{\frac{2}{3}} \left\langle \frac{1}{2}, -\frac{1}{2} \right| \right) + \left(\sqrt{\frac{2}{3}} \left| \frac{3}{2}, -\frac{1}{2} \right\rangle + \sqrt{\frac{3}{3}} \left(\frac{1}{2}, -\frac{1}{2} \right) \right)$ = 12 (3, 2) 16 (3, 2) - 12 (2, 2) Hs (2, 2) where again since strong interactions consenes isospin only