NO CLONING

Let 14), (4) are two non orthogonal state them is no quantum copying machine I it can make perfectory

(et. U be the circut by which we can copy, for two non-orthogonal state 14.7 and 142). and 12) is normalized.

Then, we get that,

. $U(4,7127 = e^{ix}(14,714) - 0$ $U(4,7127 = e^{ix}(14,714) - 0$ Here, α,β does not effect the physical interpetation of the final State.

How, @ = ... (4/1 ca/ ut = -iB < 4/1 th/ -3)

E) This gives that (42/41) = 0 or 1.

(1) (42/41) = 0 =) 1413, H2 or e orthogonal

(1) (41/41) = 1 =) 141), 142) ore identical.

only phase factor are different.