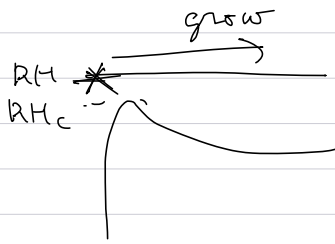


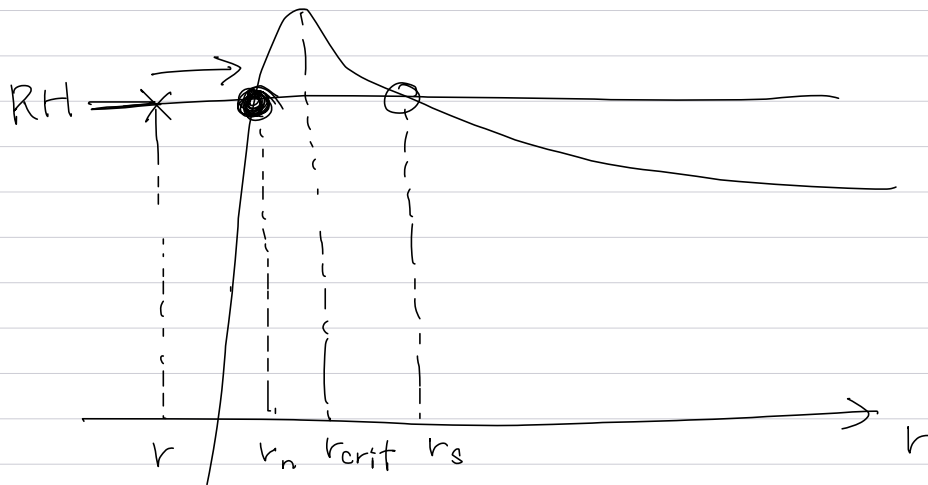
After coalescence, we have 4 possibilities.

i) $RH > RH_c$



Irrespective to the resulting r , we can say that the particle is active (if the change of RH is slow)

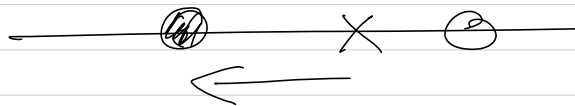
ii) $RH < RH_c$, $r < r_n$



r grows but stops at r_n , i.e. the new particle is inactive

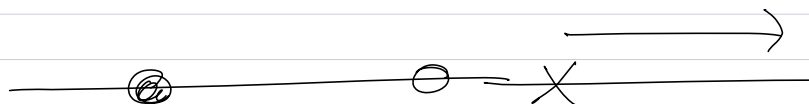
iii) $RH < RH_c$, $r_n < r < r_s$

r shrinks but stops at r_n , i.e. inactive.



iv) $RH < RH_c$, $r_s < r$

r grows, i.e. active.



So, $r > r_c$ is not an accurate criteria.