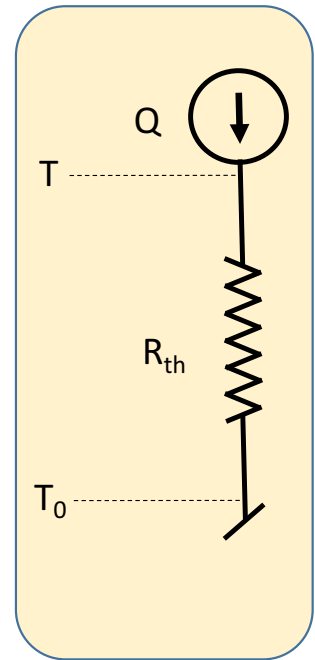
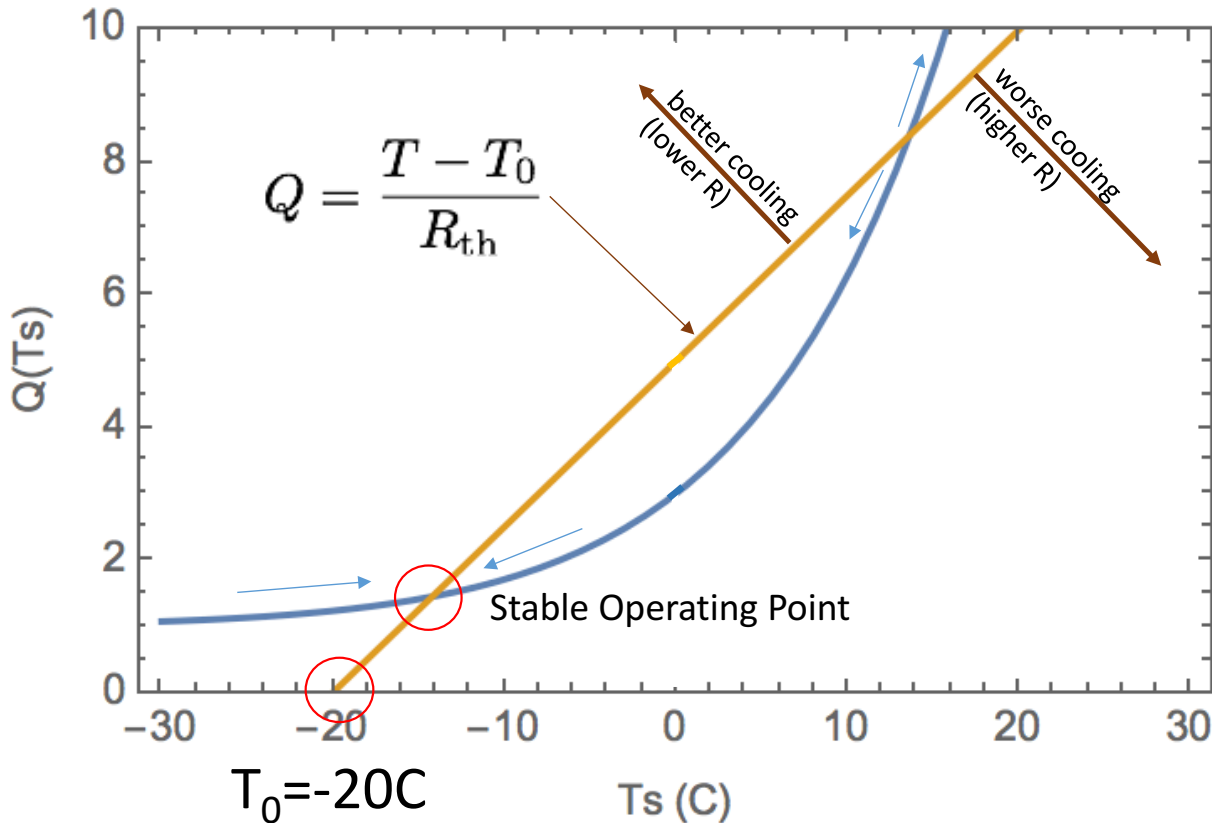
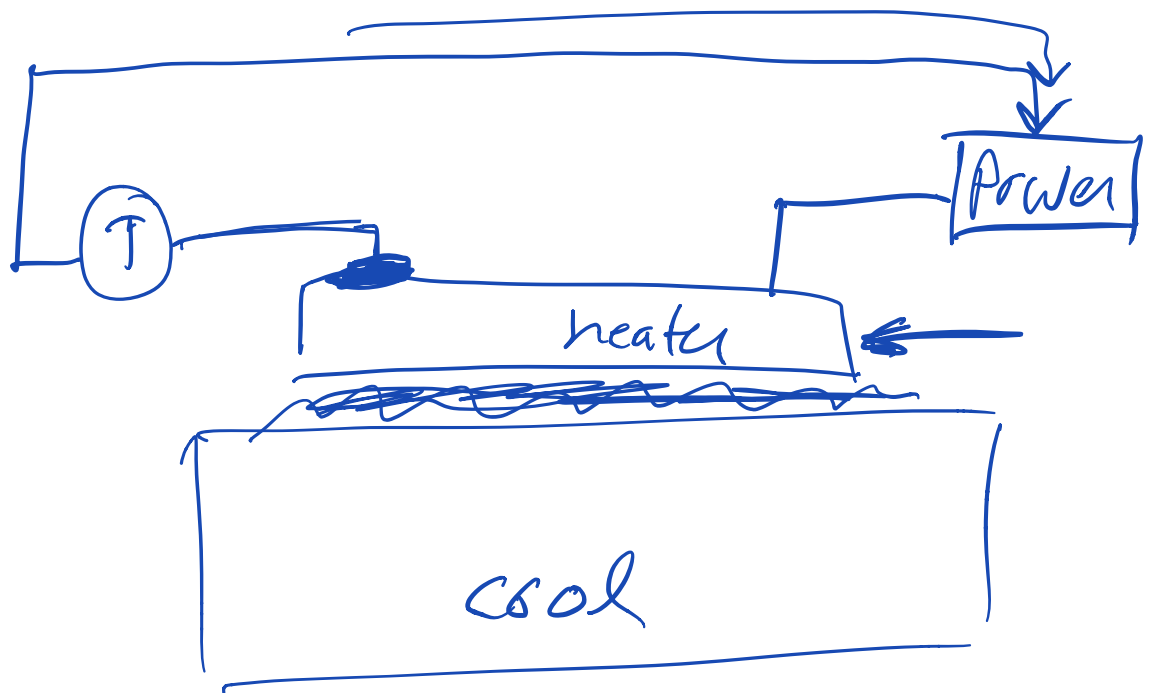


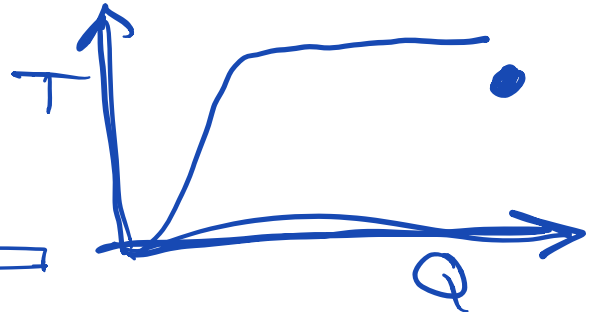
Cooling is a *linear* process





$$Q = Q_0 + Q_{ref} 2^{\Delta T / T_c}$$

$$Q_{max} = 0.5 W$$



②

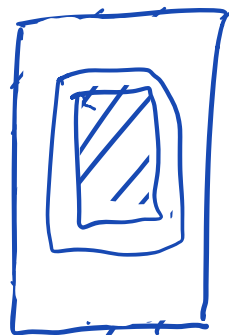


$$R = \infty$$

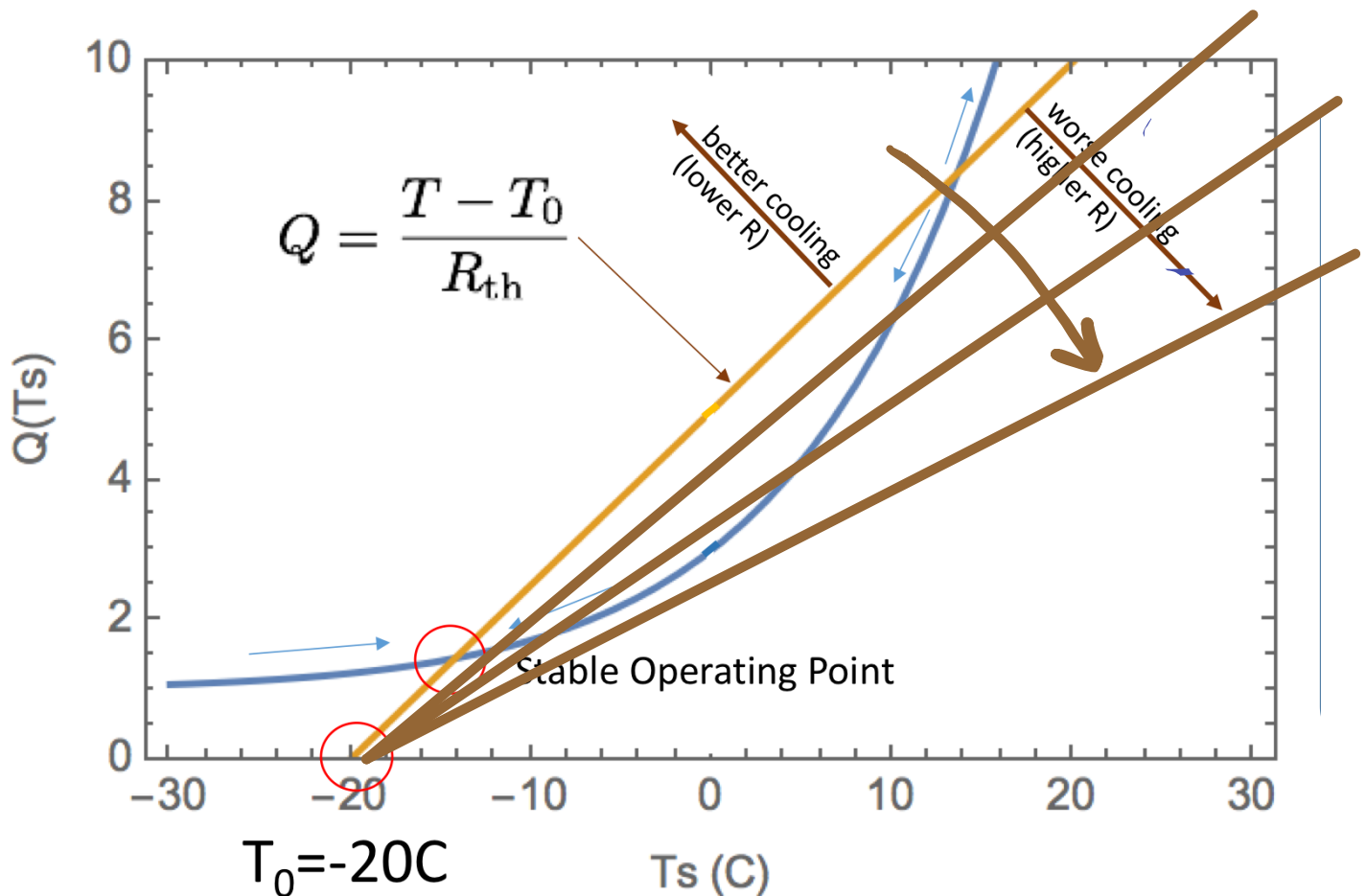


①

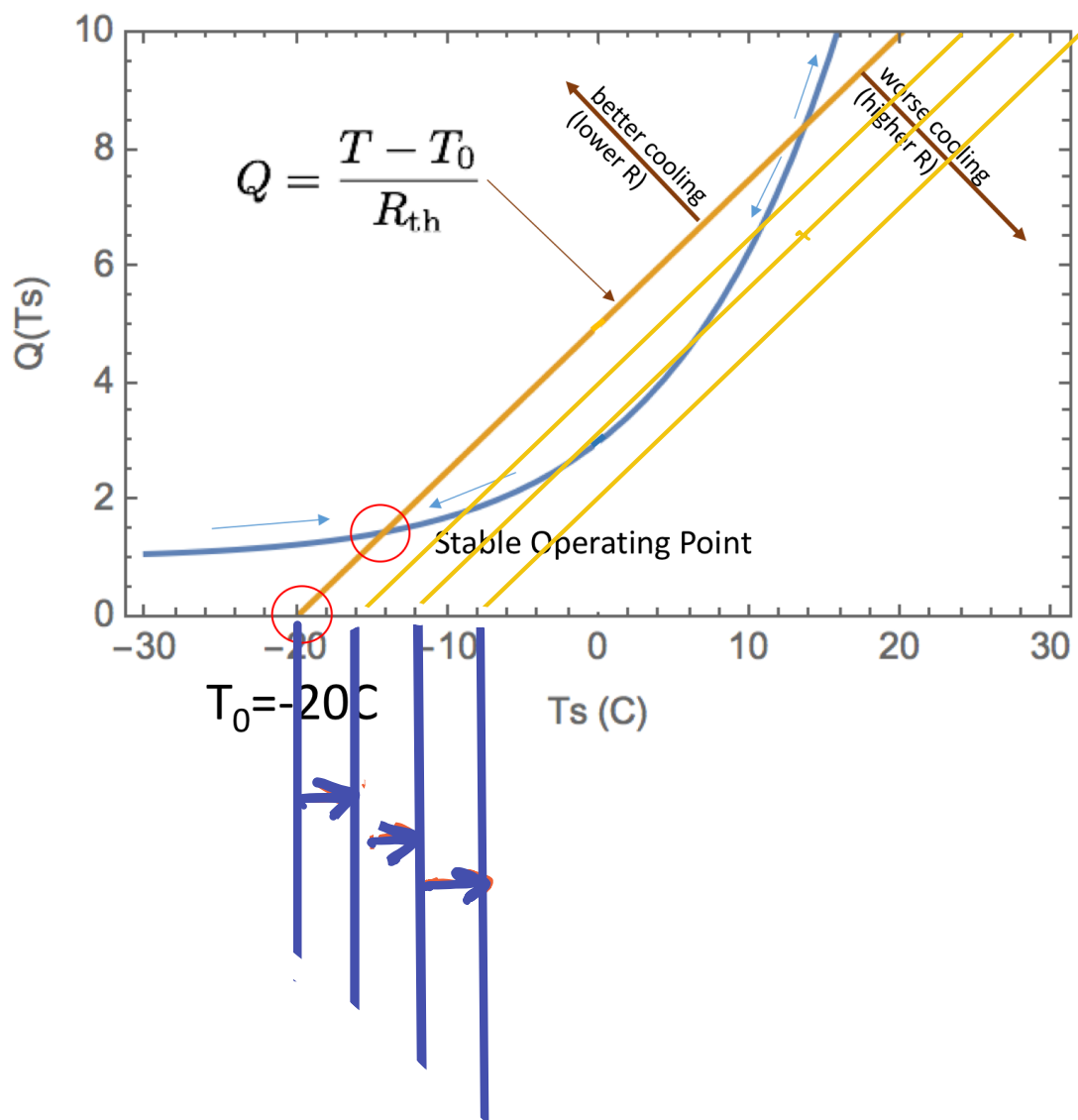
$$R = R_0$$



① Increase TIM thermal impedance till runaway starts :



② Leave TIM impedance fixed but increase temperature of coolant until runaway starts:



③ Keep impedance & coolant temperature fixed, but increase the term in the power equation to mimic increasing radiation damage:

