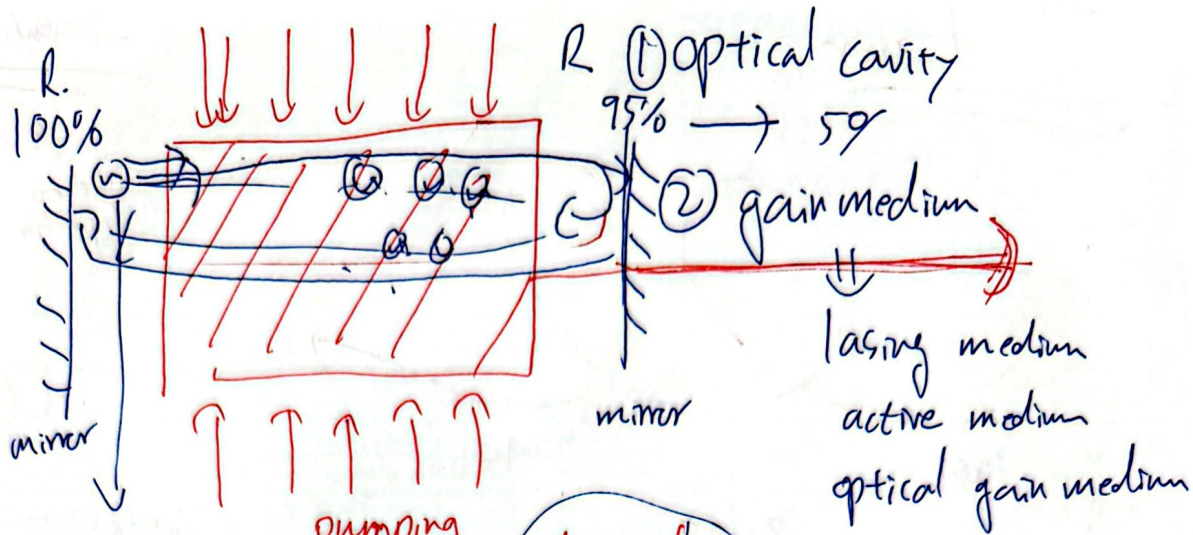


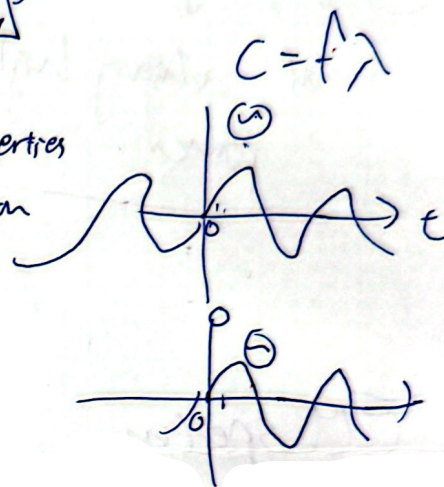
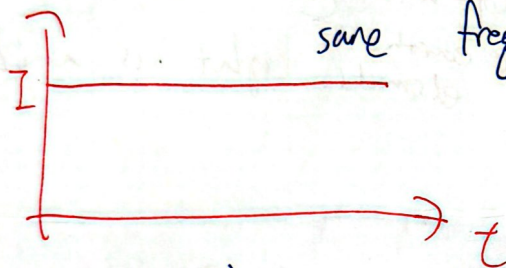
Laser



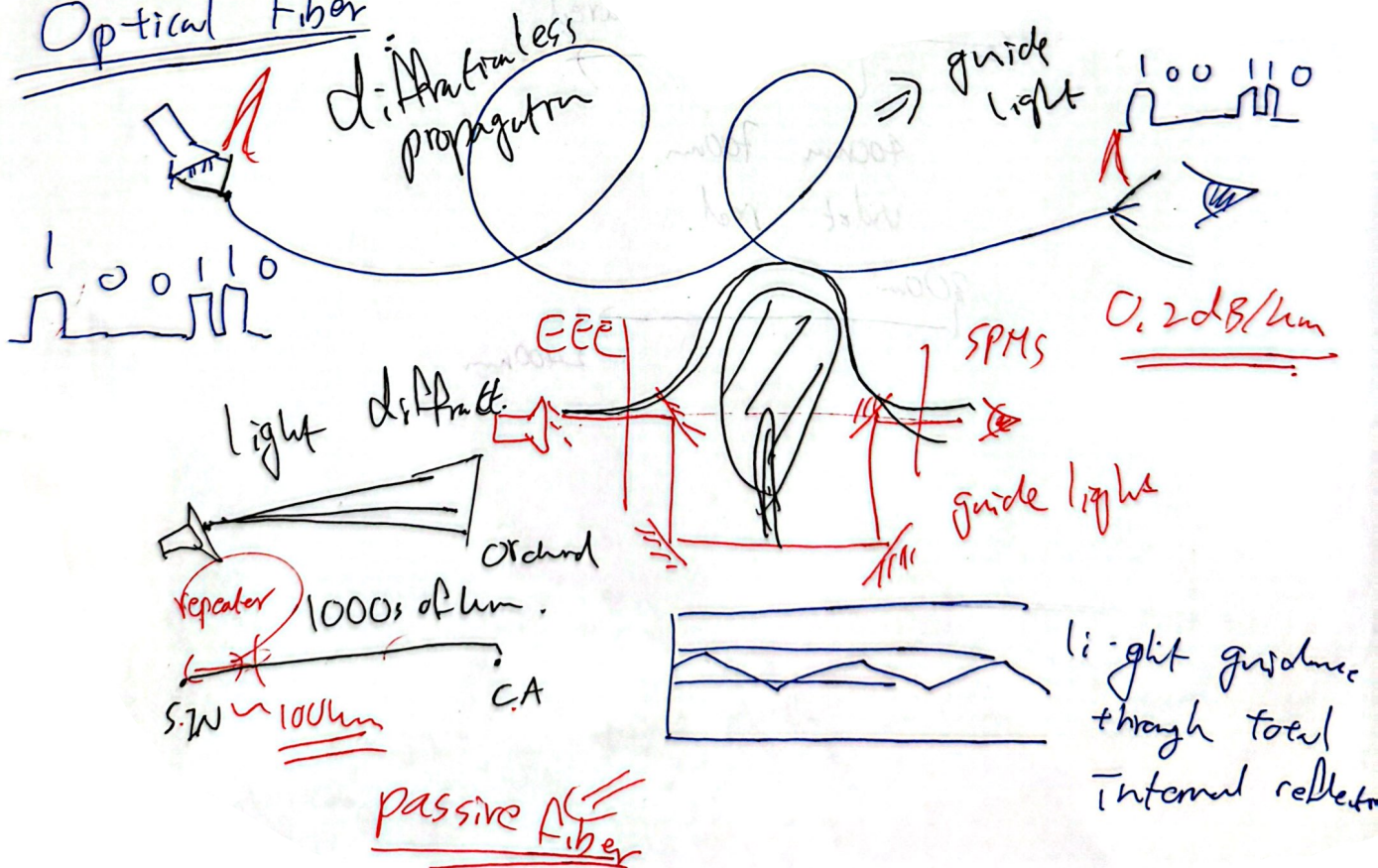
laser physics

4th year

newly created photons
will have the same properties
as the original photon
same frequency.

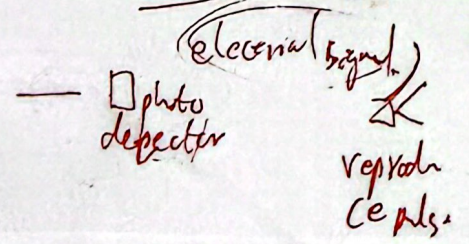


Optical Fiber



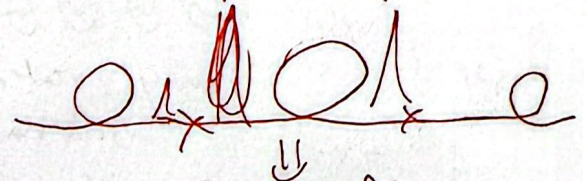
Fiber Laser

conventional repeaters

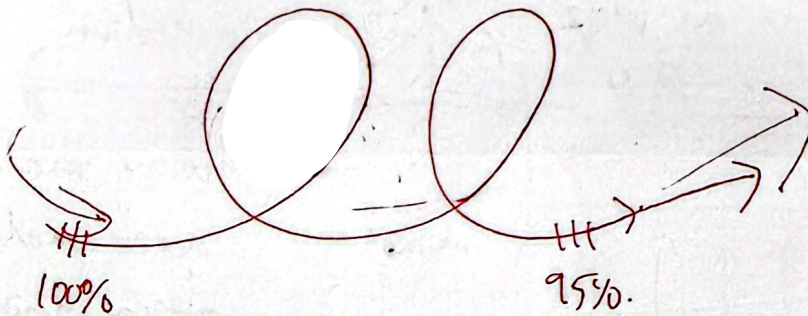


SLOW

bottleneck
all-optical-repeater



dope with Er active fiber
rare earth elements light is amplified



active
very good fiber.
at extremely high power.

EM spectrum

