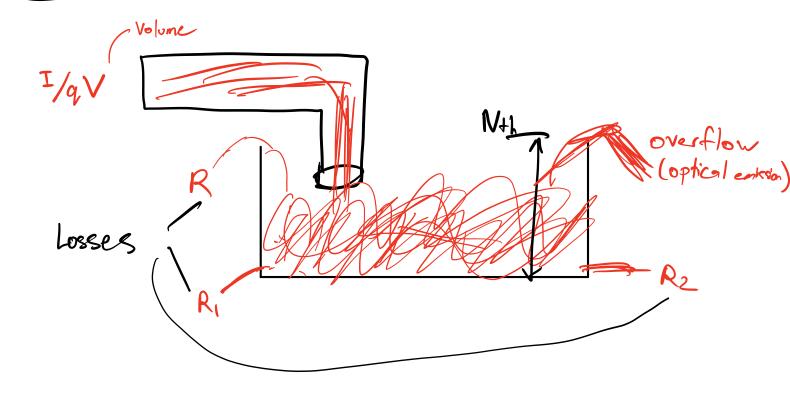
## Bathtub Analogy



## Loser Rate Equations

- · JS photons
- · LED'S Spontaneous emission
- · Laser's -> Stimulated emissions

1 N - elections

Band Gap

Direct vs. Indirect Conduction and Valence Bands. Direct is preferred