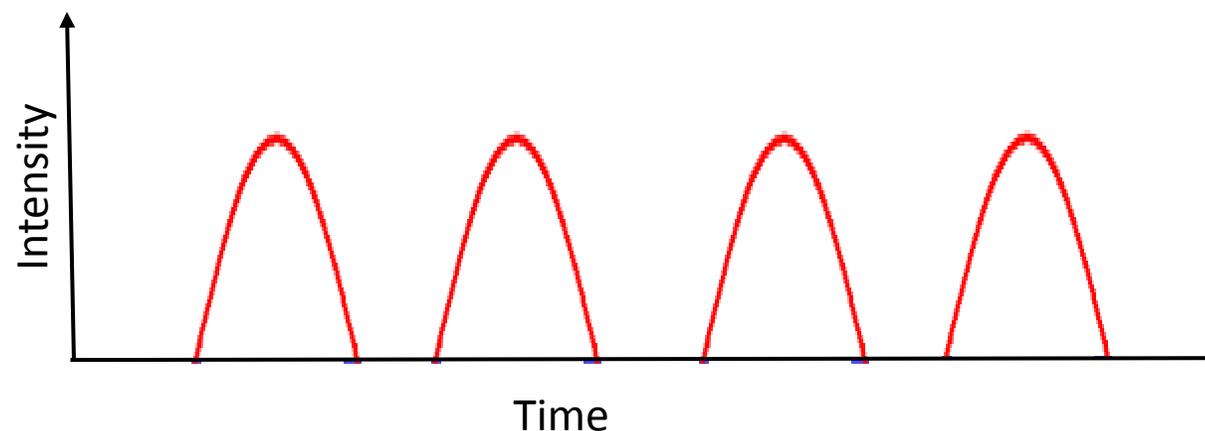


Features Of Cavity Dumping

- Cavity dumped output has a sinusoidal temporal pattern.



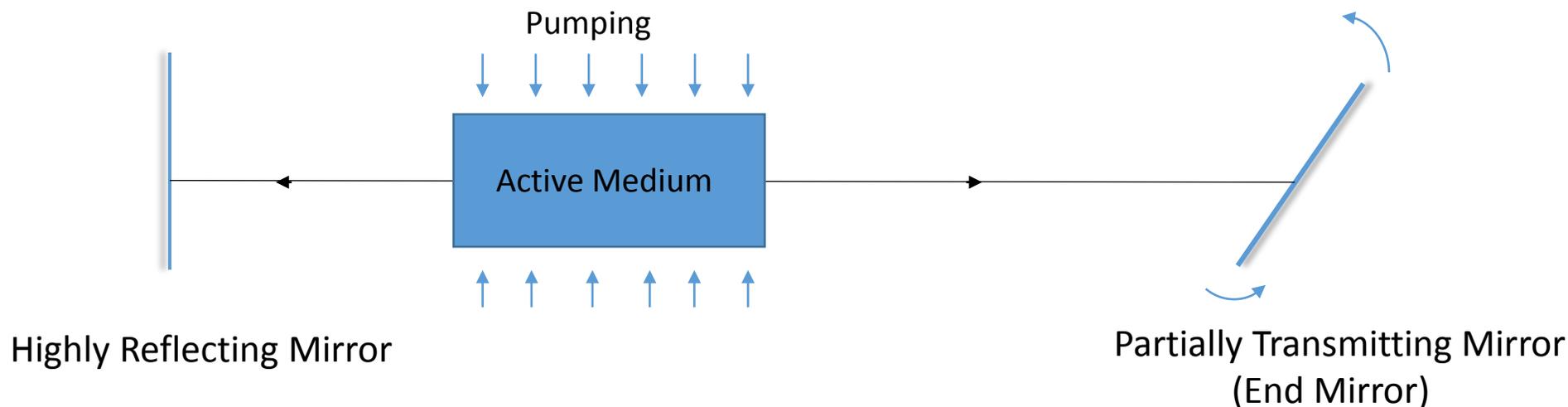
- All the time resonator losses are kept at minimum.
- Intercavity photons can be extracted within one round trip time.

Q-Switching

- In this technique quality factor(Q) of the cavity is decreased, where

$$Q = 2\pi \frac{\text{Energy stored in the cavity}}{\text{Energy loss per optical cycle}}$$

This is done by using an attenuator inside the laser cavity.



Schematic diagram illustrating basic principle of Q-Switching