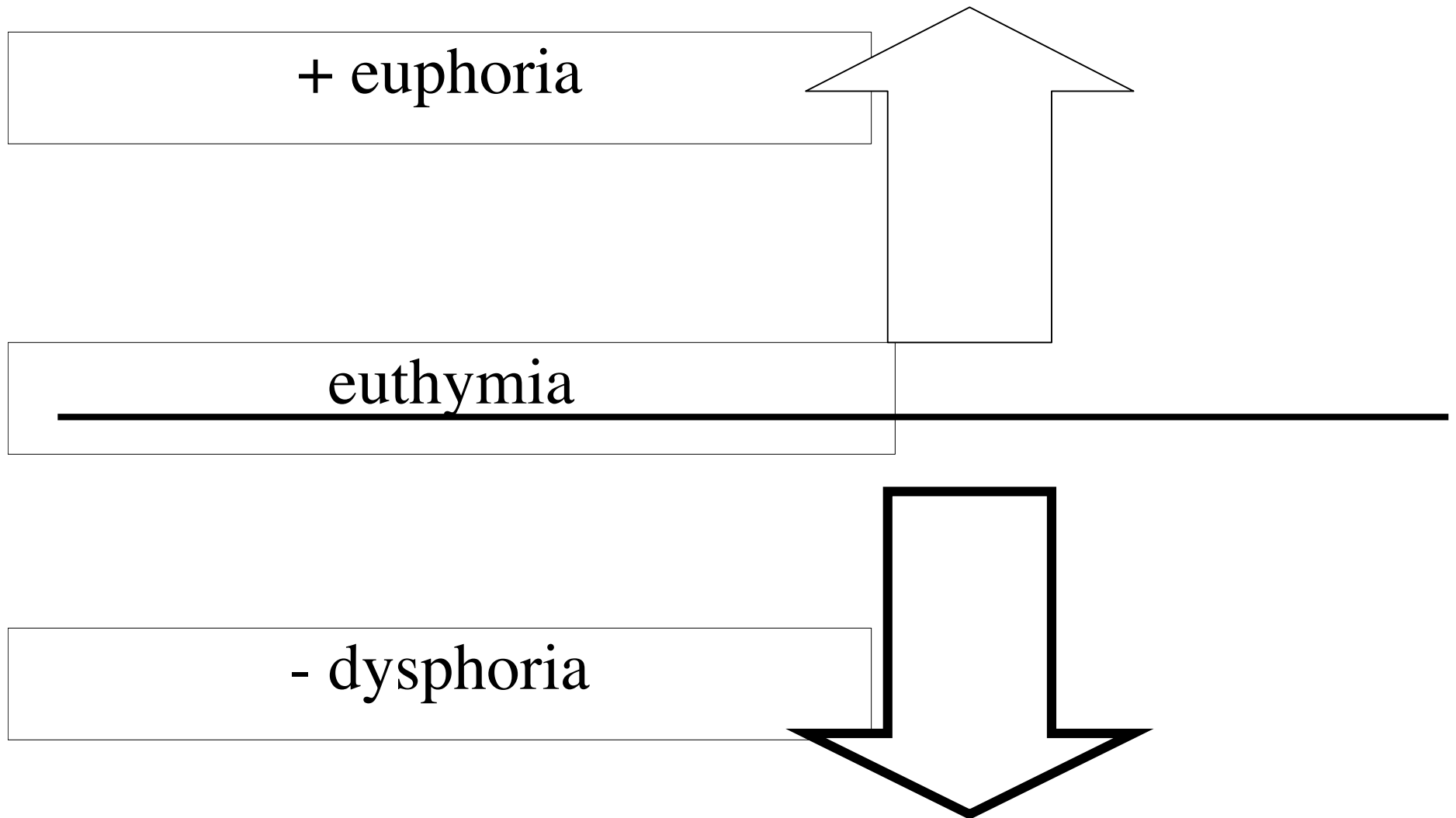
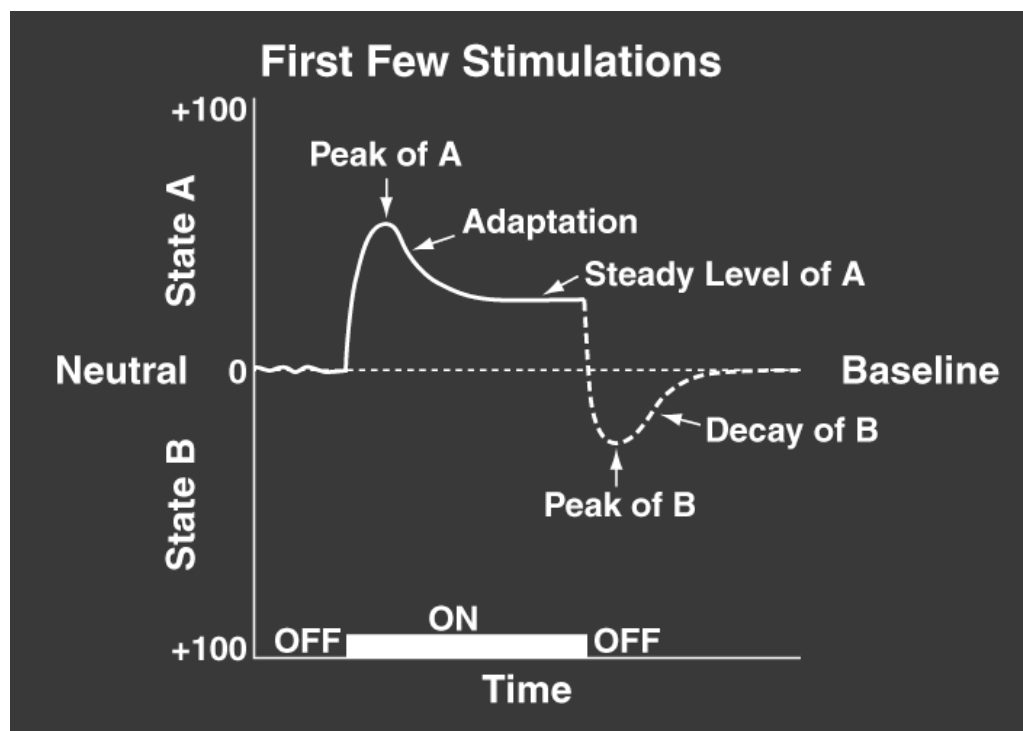


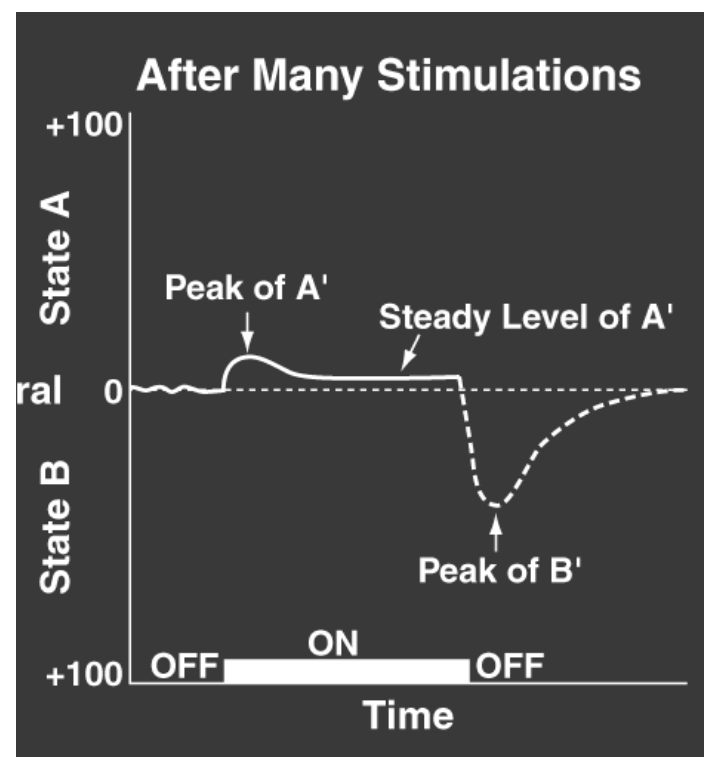
Mechanisms of Self-Regulation Failure



Opponent Process Theory



The effects of the drug or behavior (A) is euphoria, which homeostatic mechanisms (B) try to counter, resulting in the “crash” below baseline. Initial use may continue from positive reinforcement.

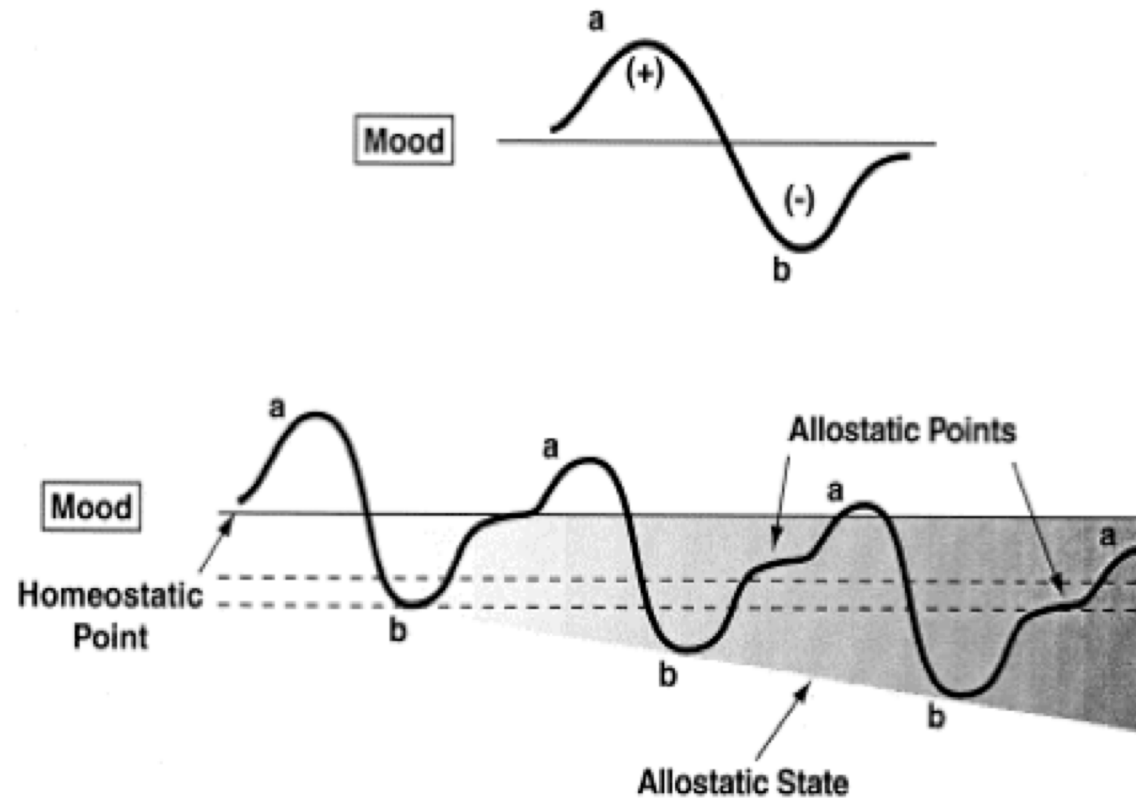


The effects of the drug or behavior (A) diminish with repeated use because homeostatic mechanisms (B) are strengthened with repeated exposure. Repeated use likely due to negative reinforcement.

Allostasis

The concept of physiology where an organism must vary all of the parameters of its internal milieu and match them appropriately to perceived and anticipated environmental demands in order to maintain stability

- Maintenance of apparent stability at a new pathological “set point”
- Small further challenge can lead to breakdown of the system



Mechanisms of Self-Regulation Failure

Homeostasis

- Normal set point
- No anticipation of demand
- No cost
- No pathology

Allostasis

- Change set point
- Anticipation of demand
- Cost (allostatic load)
- Pathology