saturation   **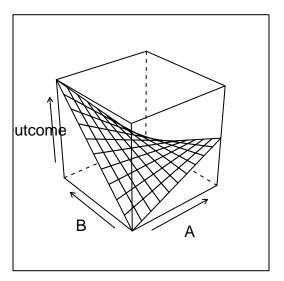amplification**