$\theta_1, \theta_2 \sim \text{Beta}(1, 1)$
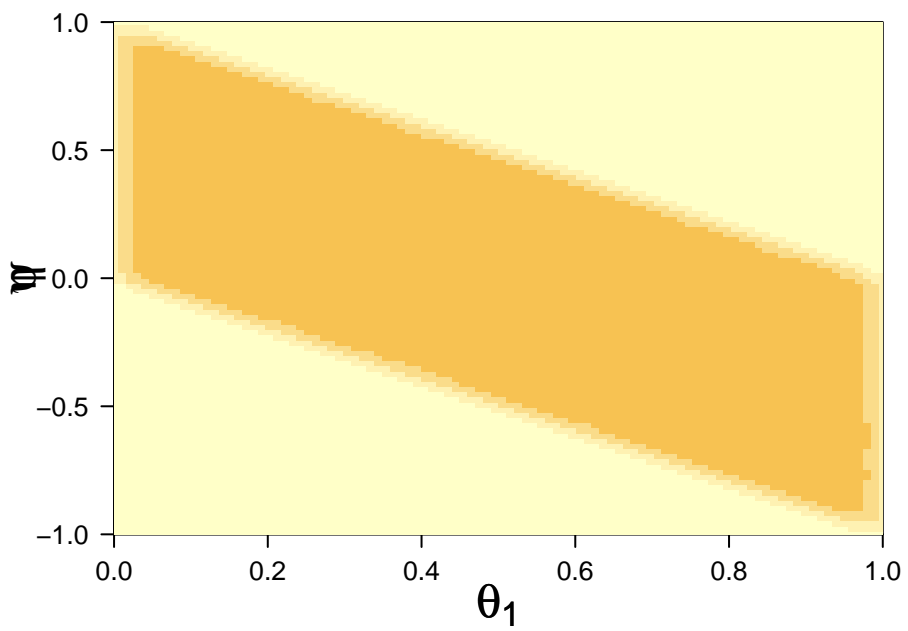
Expected Rate Difference

$\psi \sim \text{N}(0, 1)$