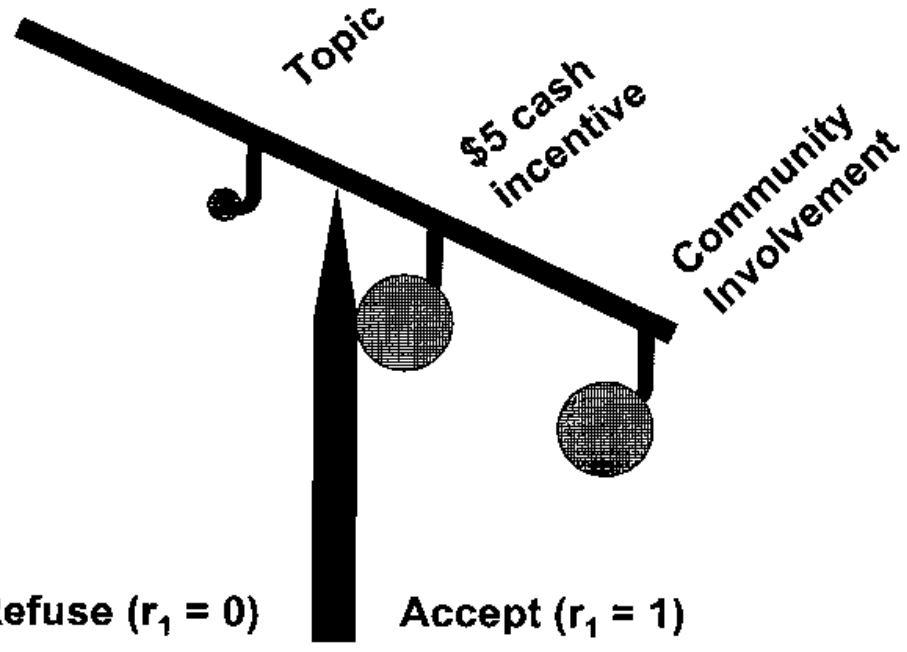

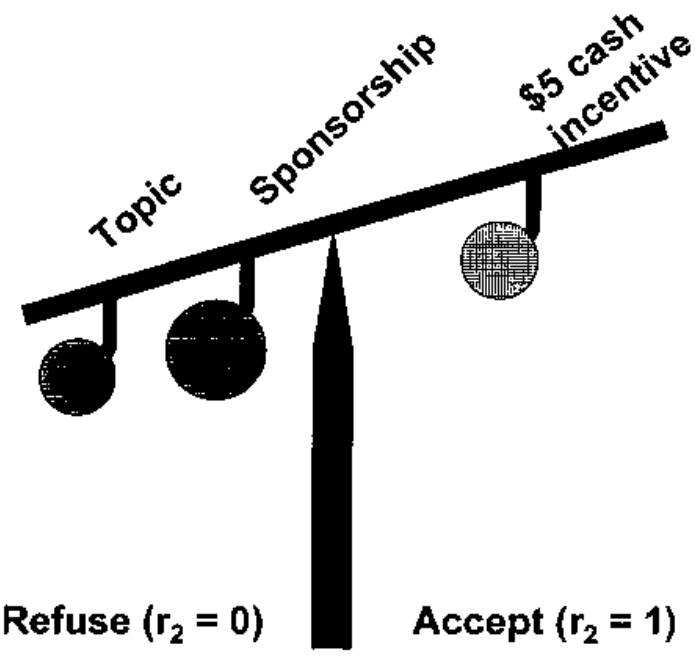

Person 1, $P(r_1 = 1) = e^{\beta_o + \Sigma(\beta_{1j}L_{1j} + \beta_{2j}S_{1j} + \beta_{3j}L_{1j}S_{1j})}$

Person 2, $P(r_2 = 1) = e^{\beta_o + \Sigma(\beta_{1j}L_{2j} + \beta_{2j}S_{2j} + \beta_{3j}L_{2j}S_{2j})}$