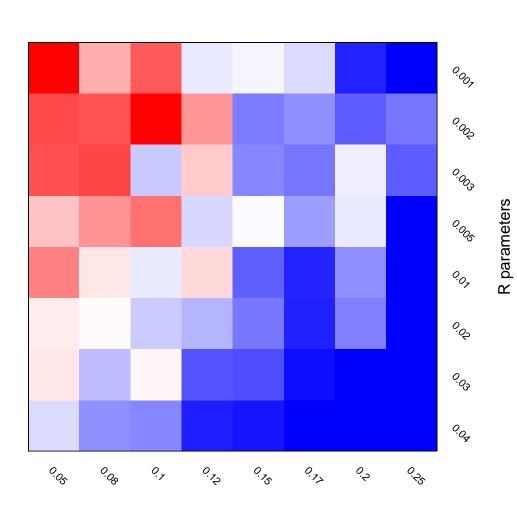δ_{LL} for fixed $\eta = 2$