$q = 25$, $(\underline{r}, \b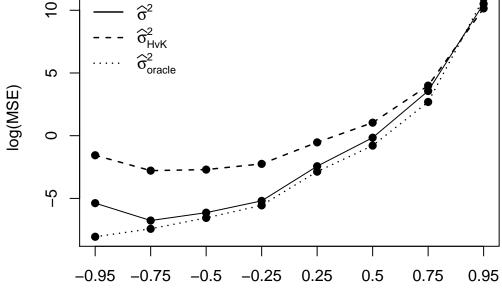ar{r}) = (5,10)$, $(m_1, m_2) = (20,30)$