Figure 1: Comparison between NUTS and our samplers for SIR model with identity covariance matrix: The x-axis in each plot corresponds to the desired accept probability δ of the primal-dual averaging algorithm. In the first row, y-axis is the ESS per gradient for the parameters $(\beta, \gamma, \xi, \phi)$. ESS of samples of NUTS, eHMC, eHMCq and eHMCu is estimated by `ess` of `R package mcmcse`.