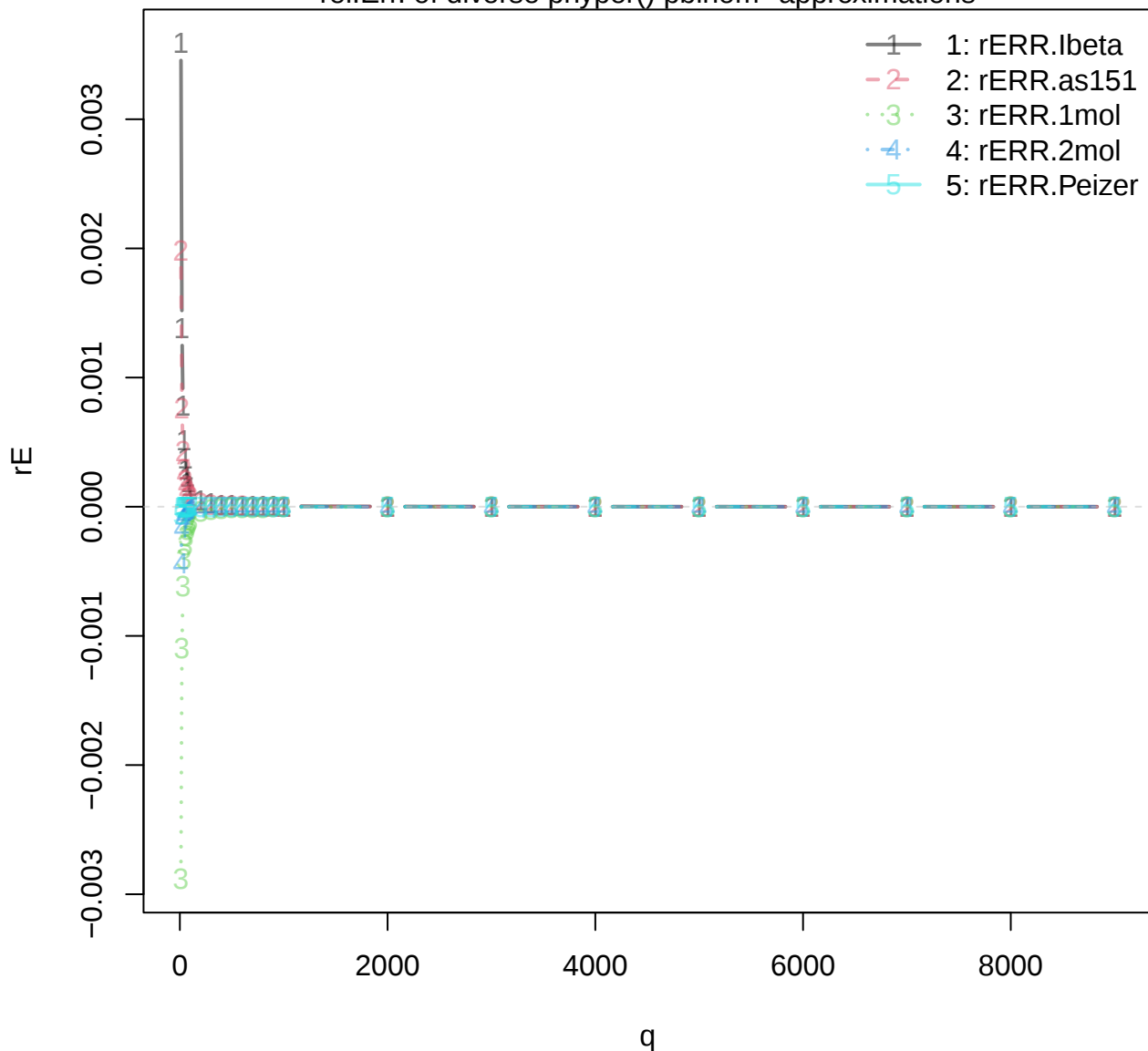


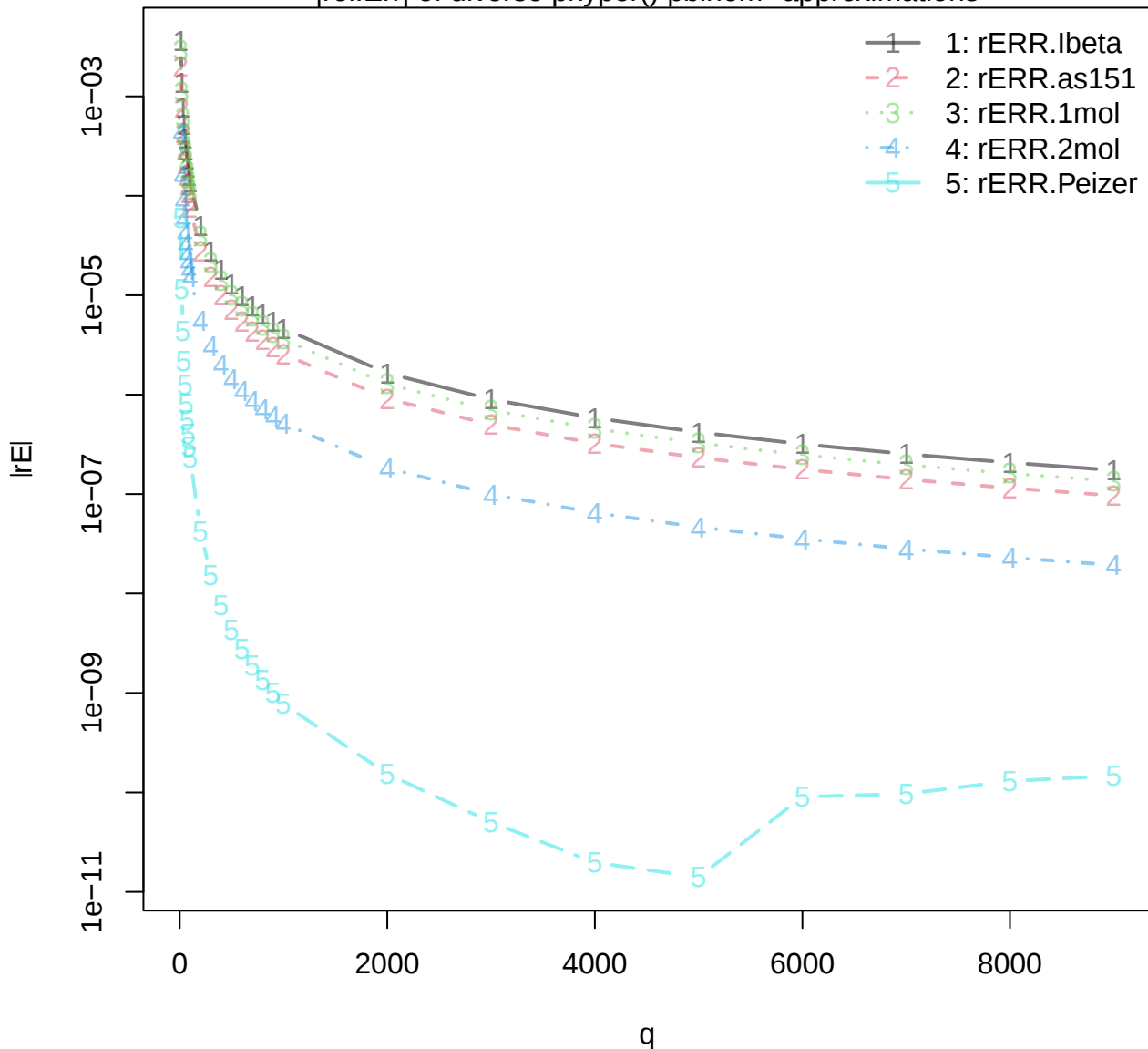
phyper(q = k, 2 * k, 2 * k, 2 * k)

rel.Err. of diverse phyper() pbinom* approximations



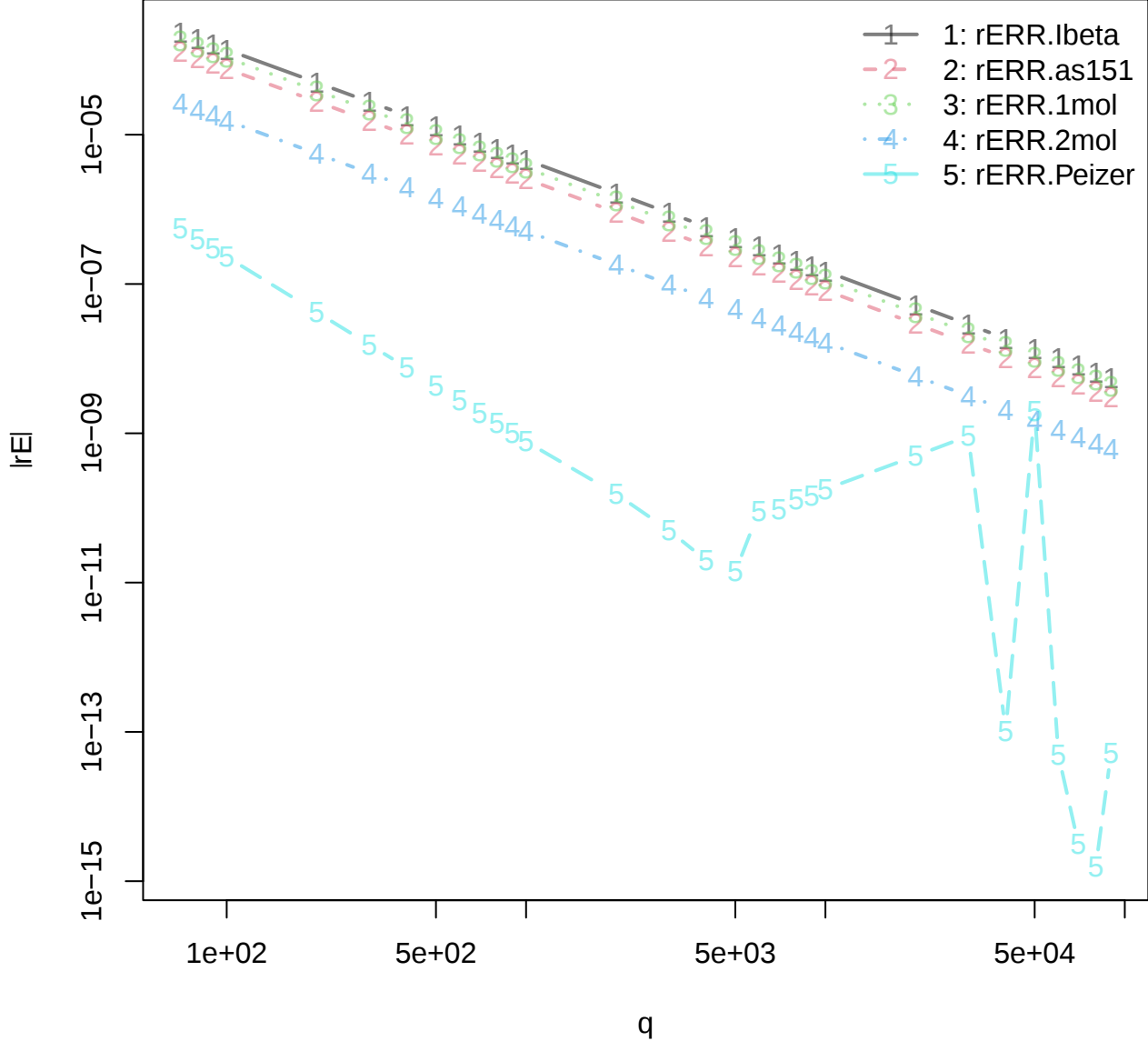
phyper(q = k, 2 * k, 2 * k, 2 * k, abslog = TRUE)

|rel.Err| of diverse phyper() pbinom* approximations



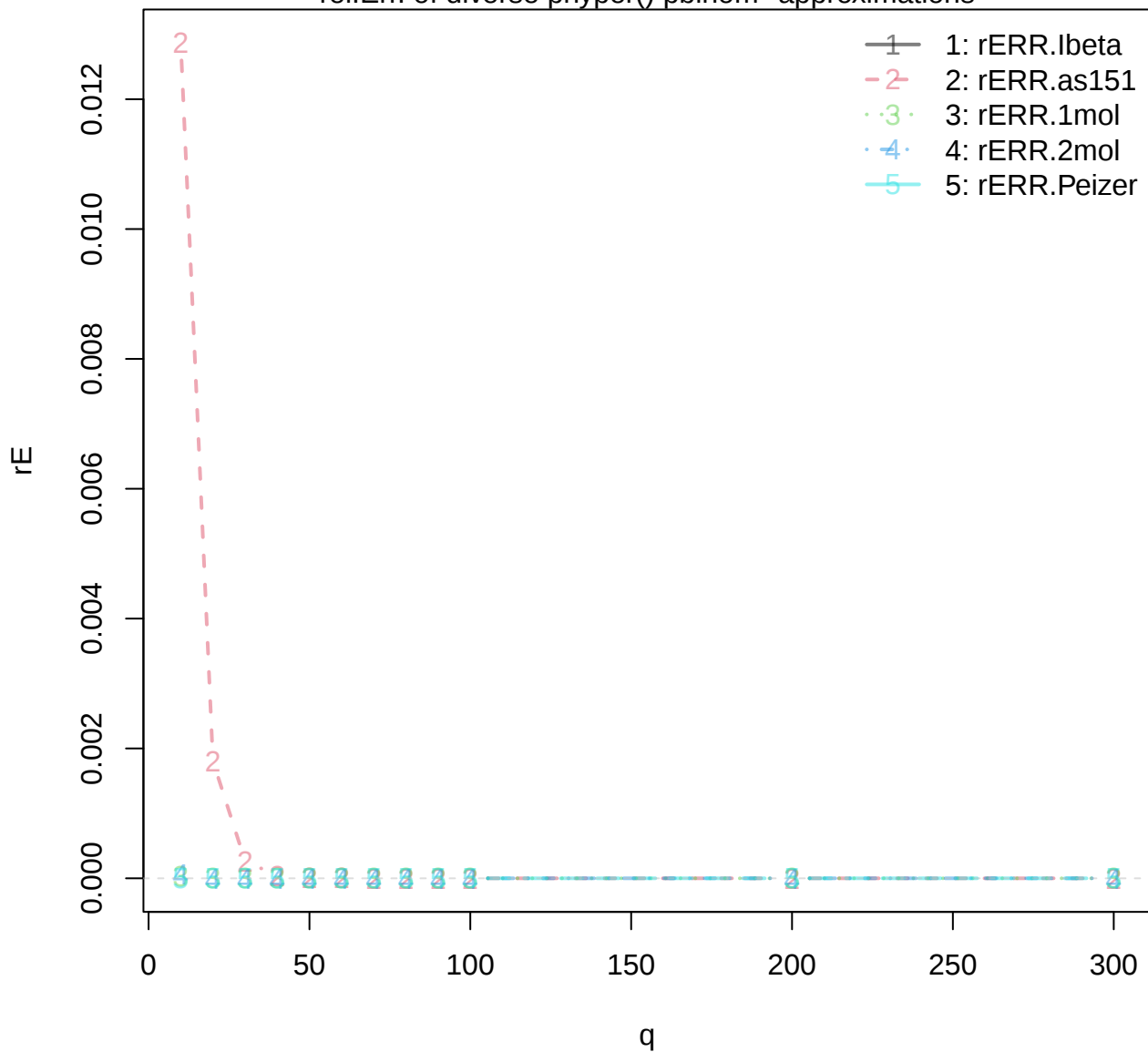
phyper(q = k, 2 * k, 2 * k, 2 * k, abslog = TRUE, logx = "x")

|rel.Err| of diverse phyper() pbinom* approximations



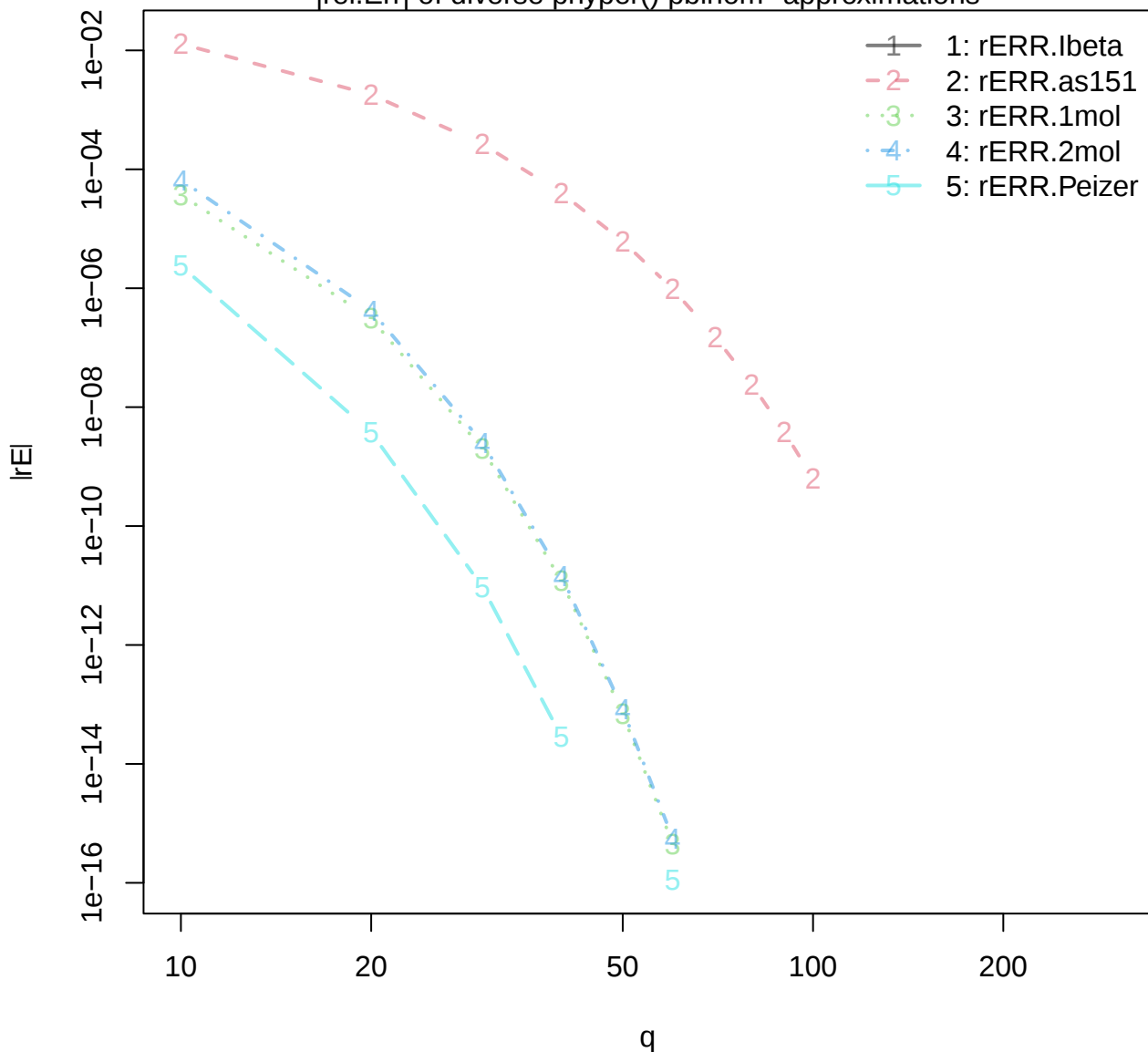
phyper(q = k, 1.2 * k, 2 * k, 1.5 * k)

rel.Err. of diverse phyper() pbinom* approximations



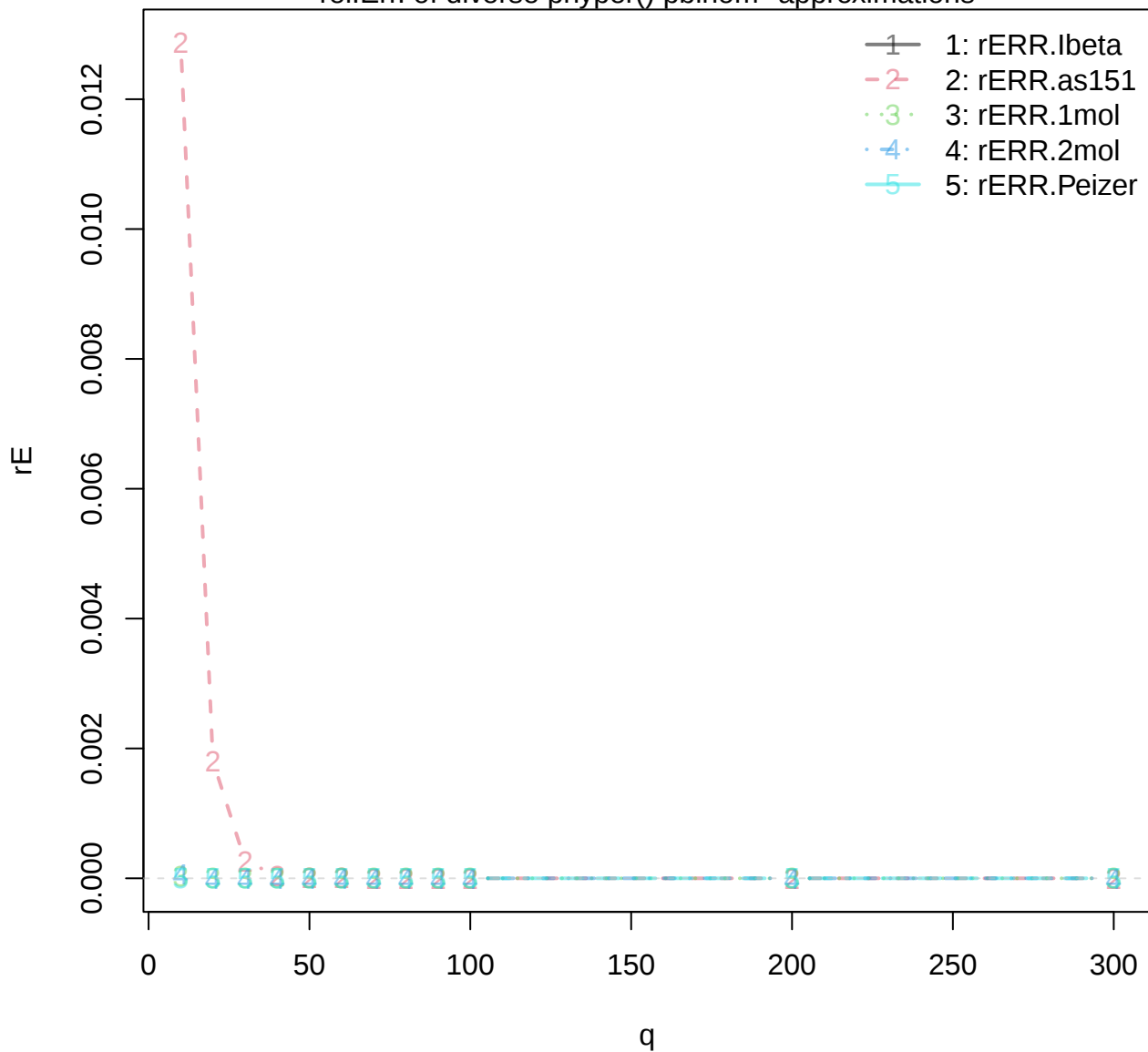
phyper(q = k, 1.2 * k, 2 * k, 1.5 * k, abslog = TRUE, logx = "x")

|rel.Err| of diverse phyper() pbinom* approximations



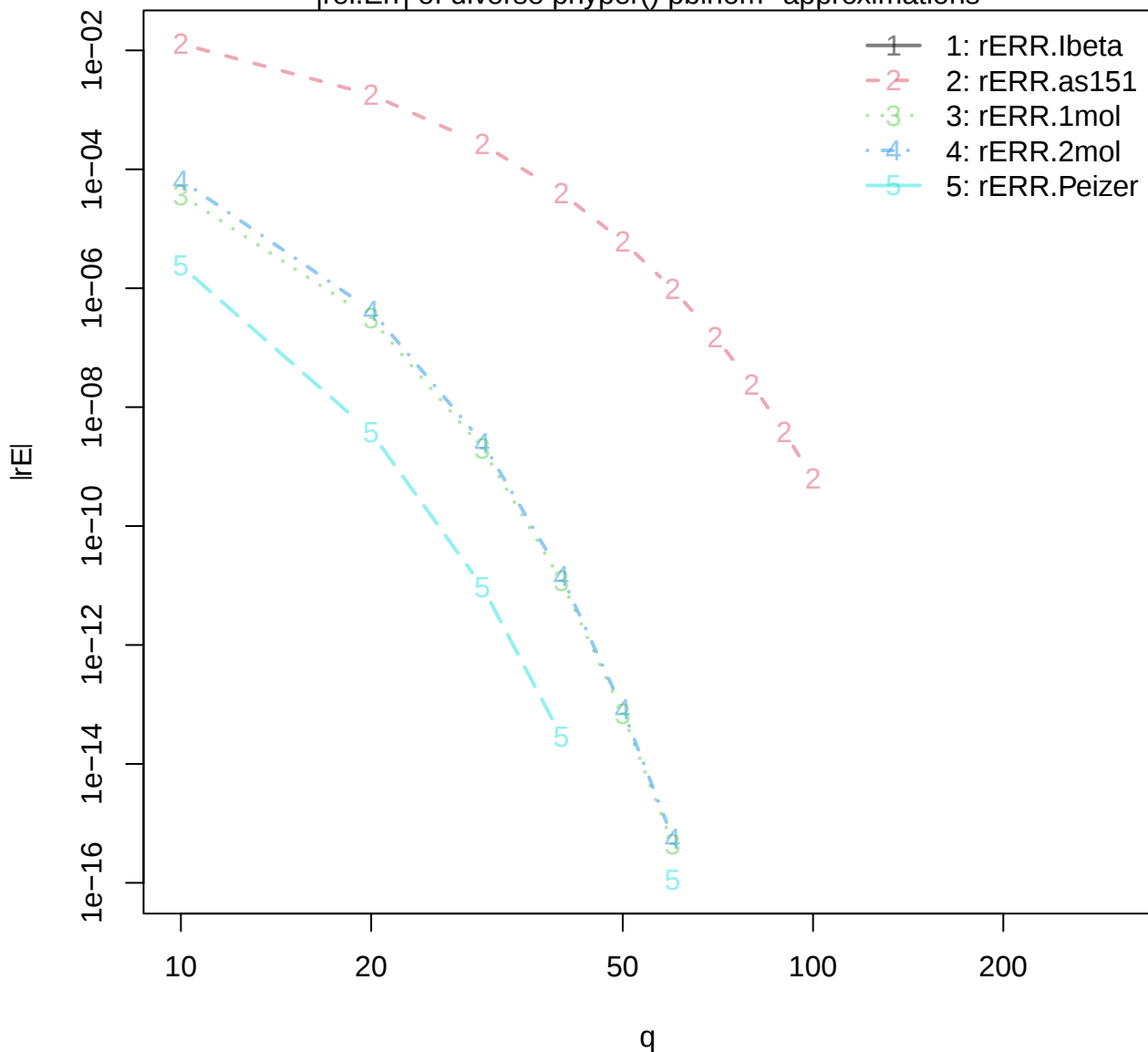
phyper(q = k, 1.2 * k, 2 * k, 1.5 * k)

rel.Err. of diverse phyper() pbinom* approximations



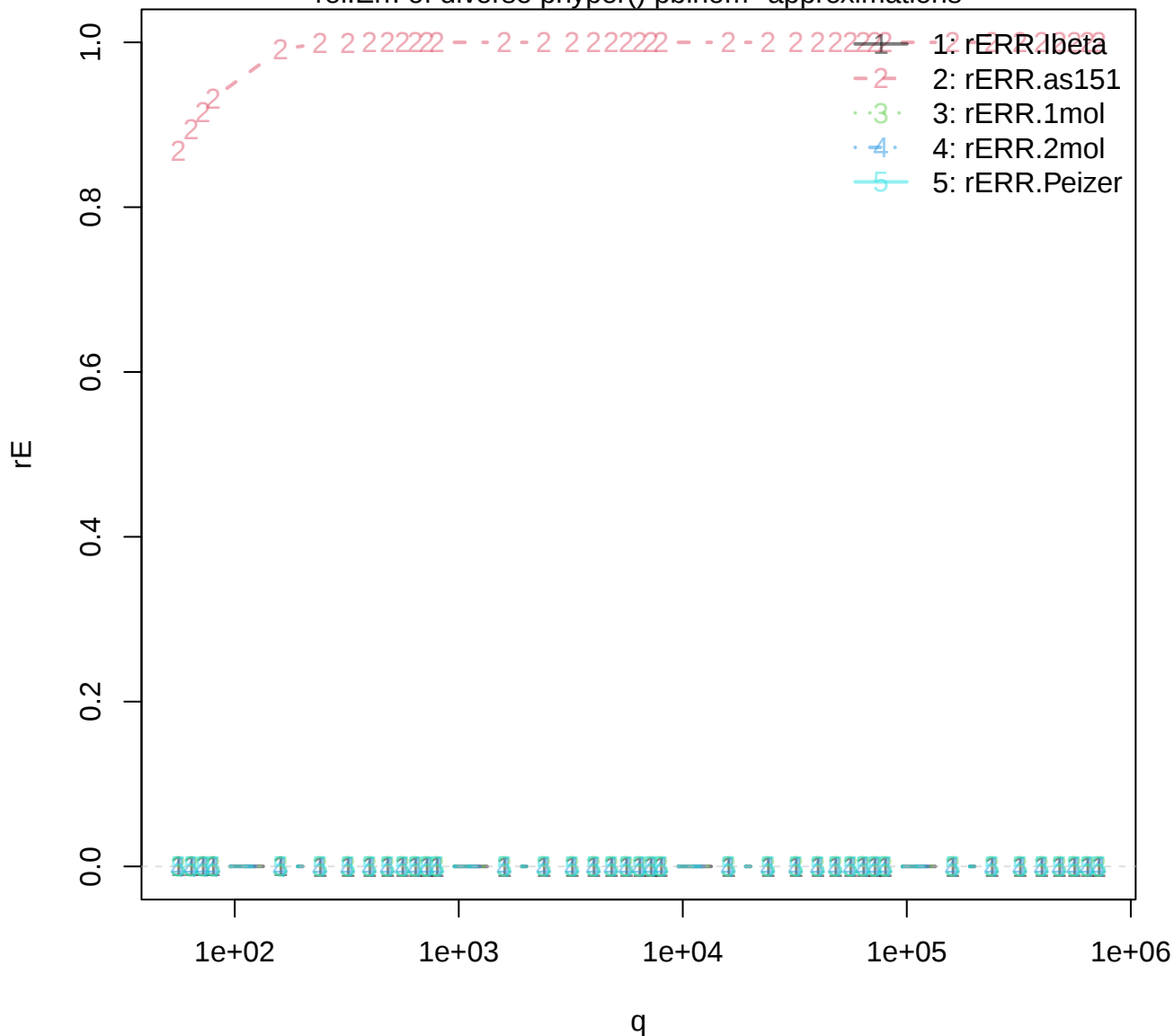
phyper(q = k, 1.2 * k, 2 * k, 1.5 * k, abslog = TRUE, logx = "x")

|rel.Err| of diverse phyper() pbinom* approximations



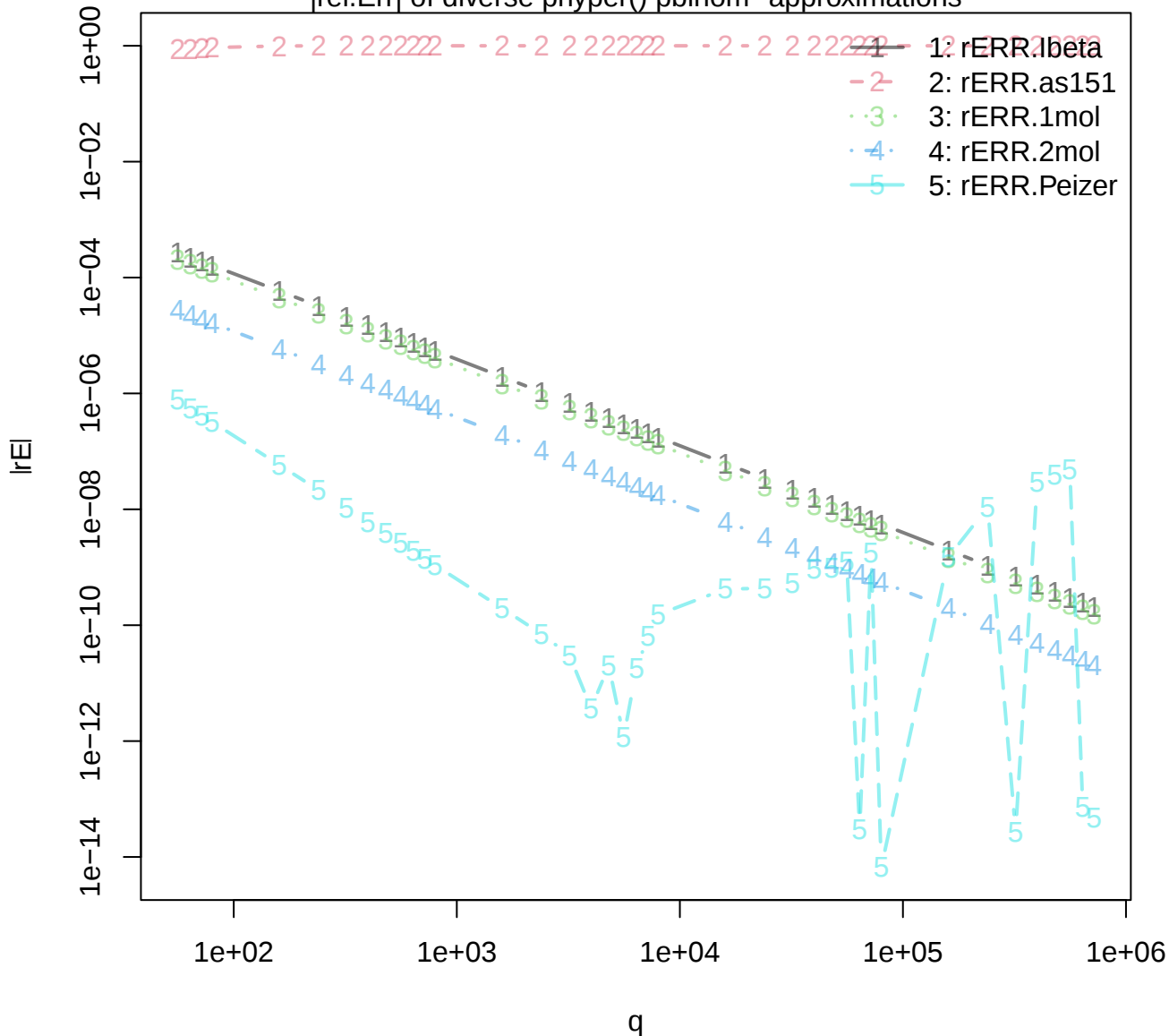
phyper(q = x, 1.6 * k, 2 * k, 1.8 * k, logx = "x")

rel.Err. of diverse phyper() pbinom* approximations

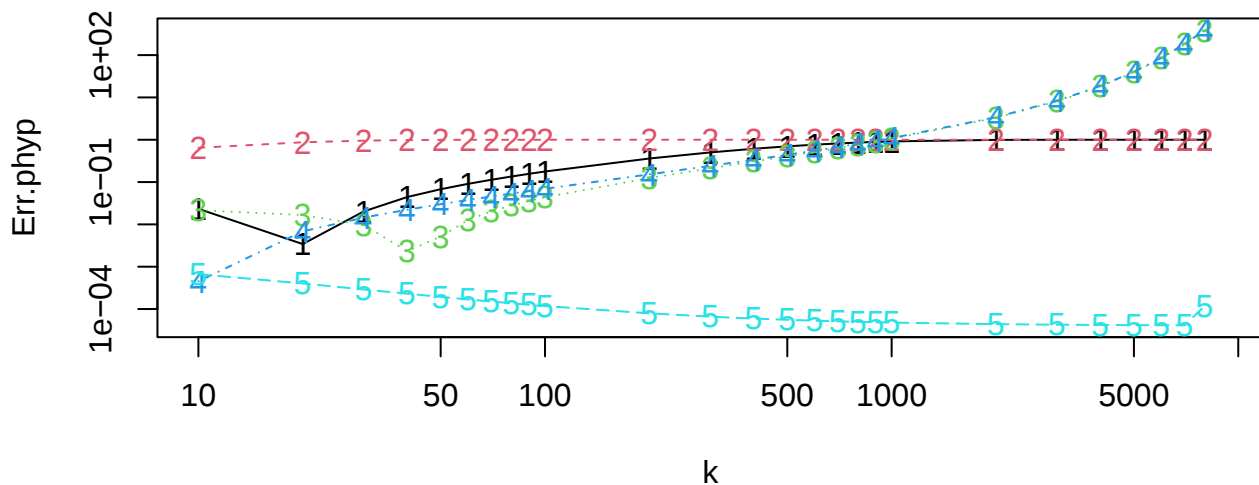


phyper(q = x, 1.6 * k, 2 * k, 1.8 * k, abslog = TRUE, logx = "x")

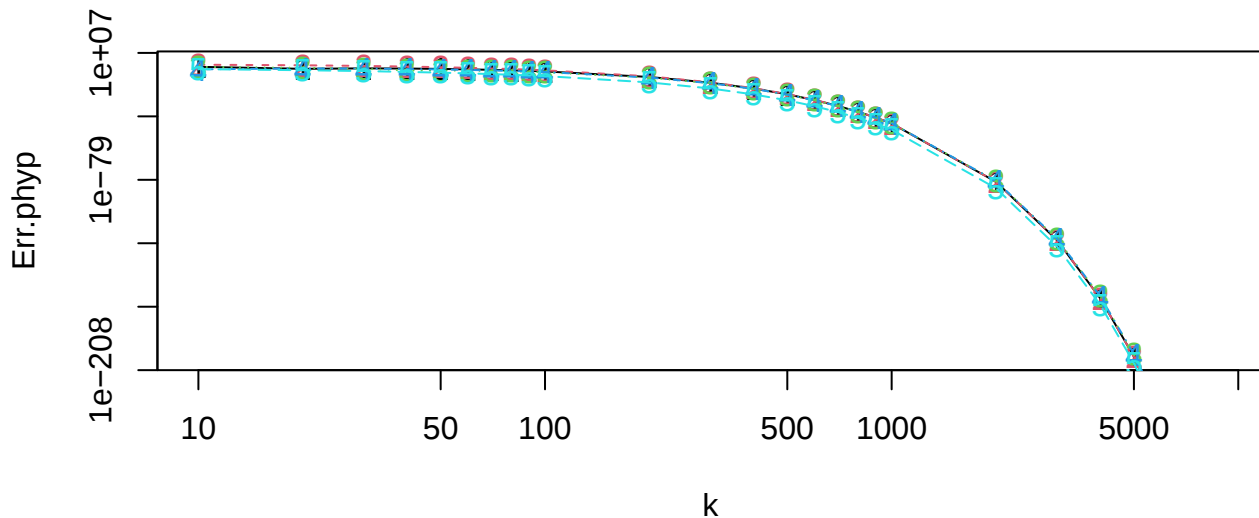
|rel.Err| of diverse phyper() pbinom* approximations



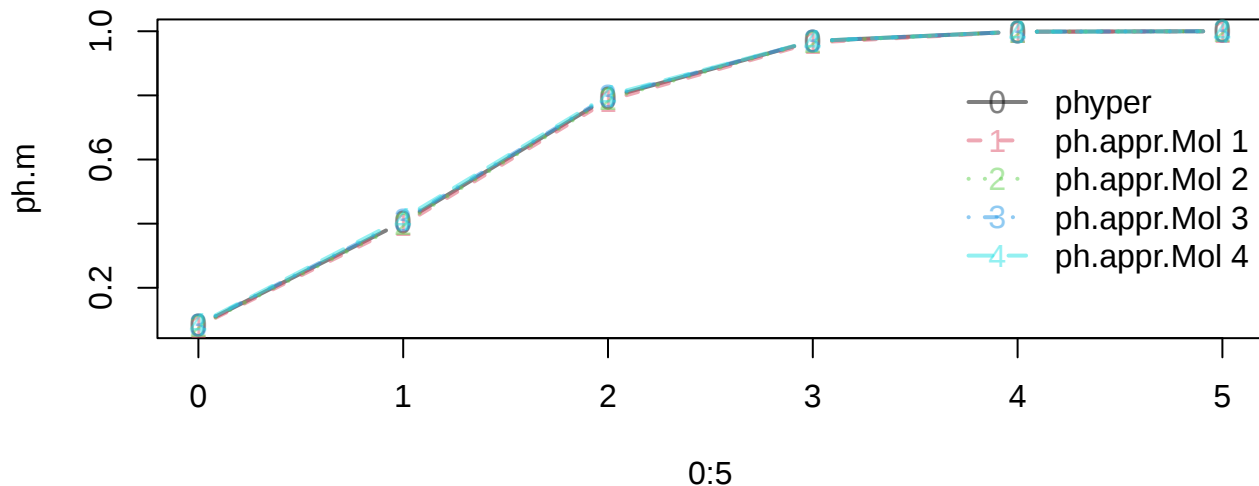
$|\text{relE}.\{\text{phyper}(x = 0.6k, 1.6k, 2k, 1.8k)\}|$



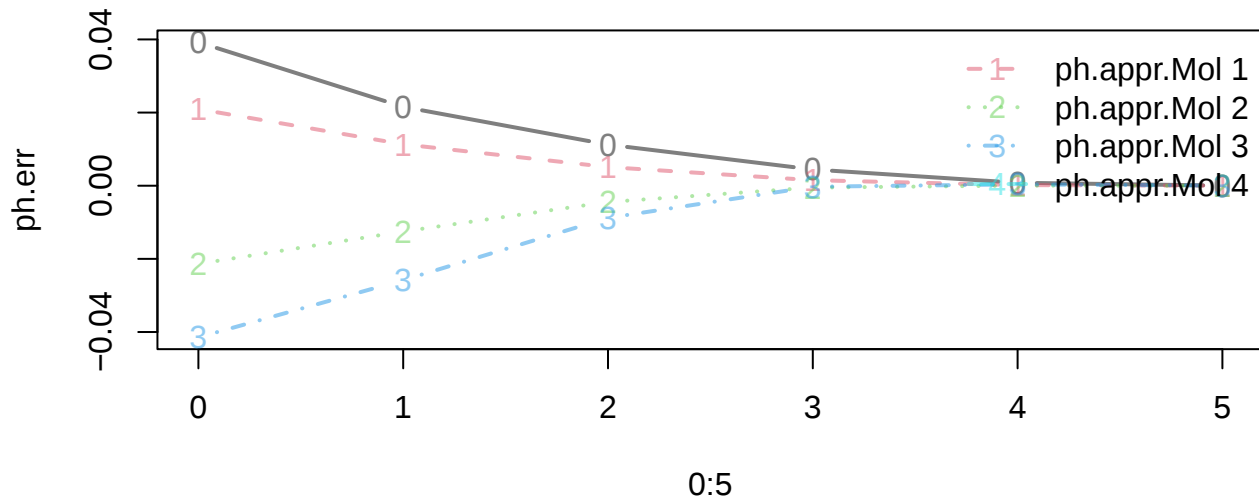
$|\text{relE}.\{\text{phyper}(x = 0.6k, 1.6k, 2k, 1.8k)\}|$



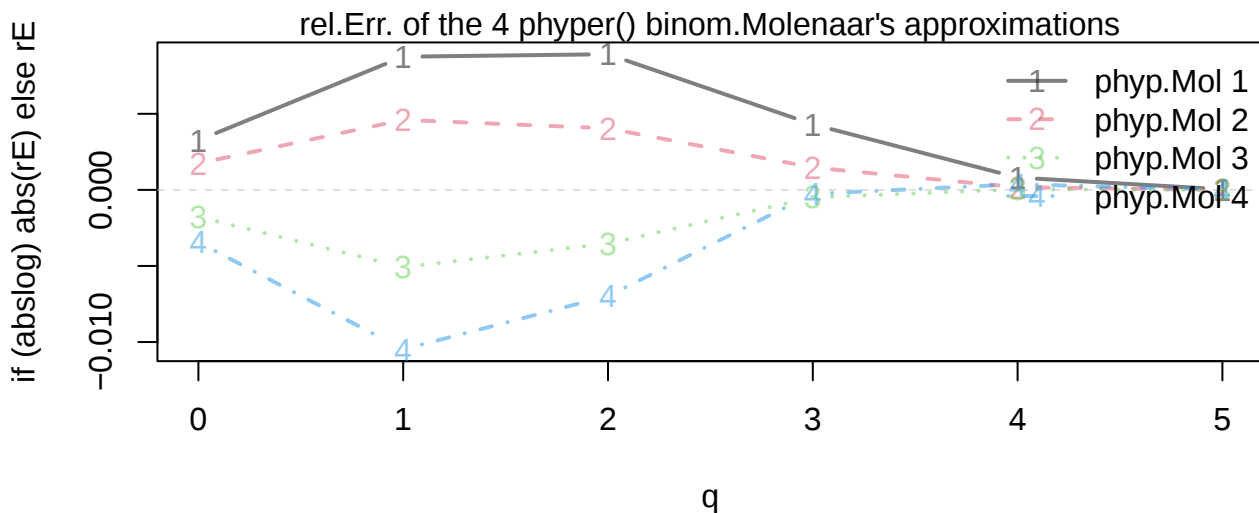
all 4 phyper() binomial approximations via Molenaar's



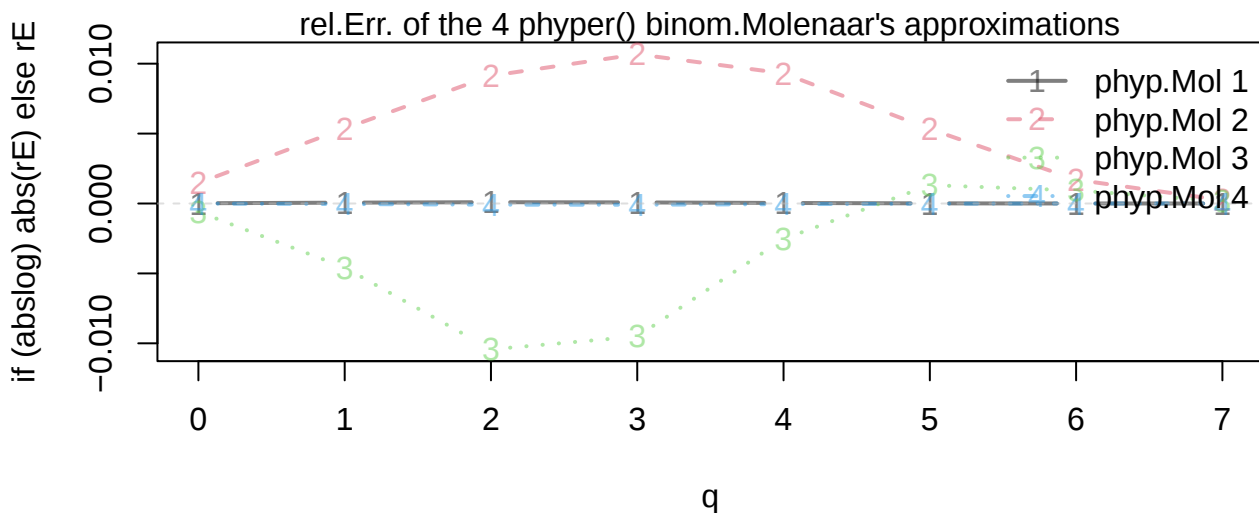
rel.Err. of the 4 phyper() binom.Molenaar's approximations



phyper(*, m = 5, n = 15, k = 7)

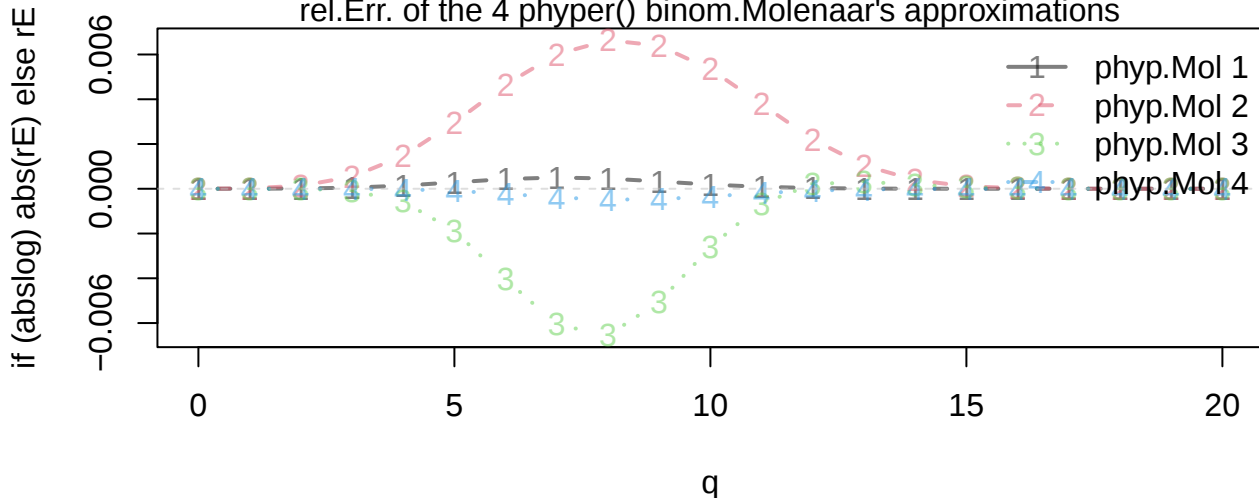


phyper(*, m = 70, n = 100, k = 7)



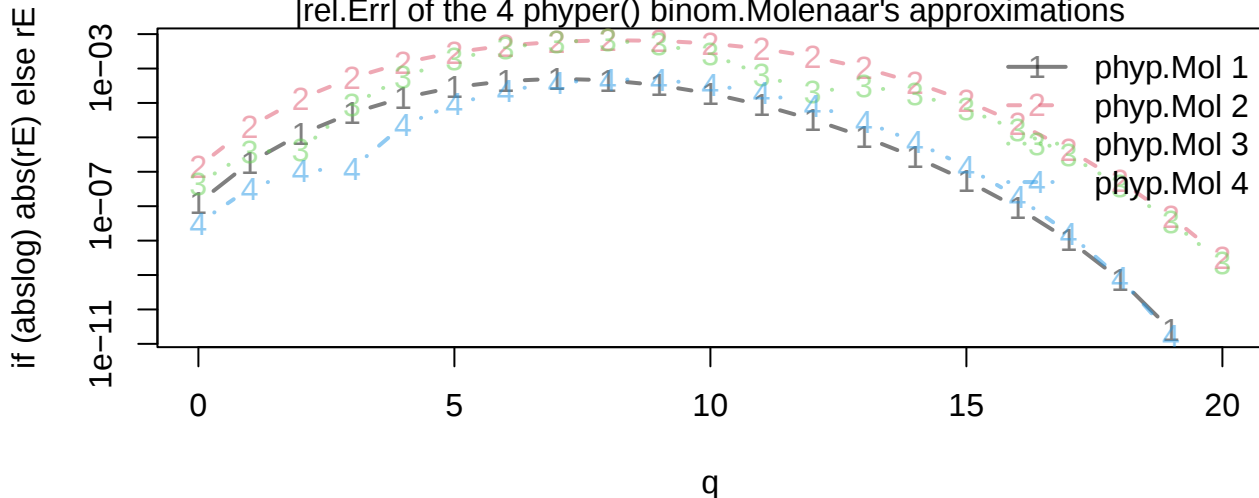
phyper(*, m = 70, n = 100, k = 20)

rel.Err. of the 4 phyper() binom.Molenaar's approximations



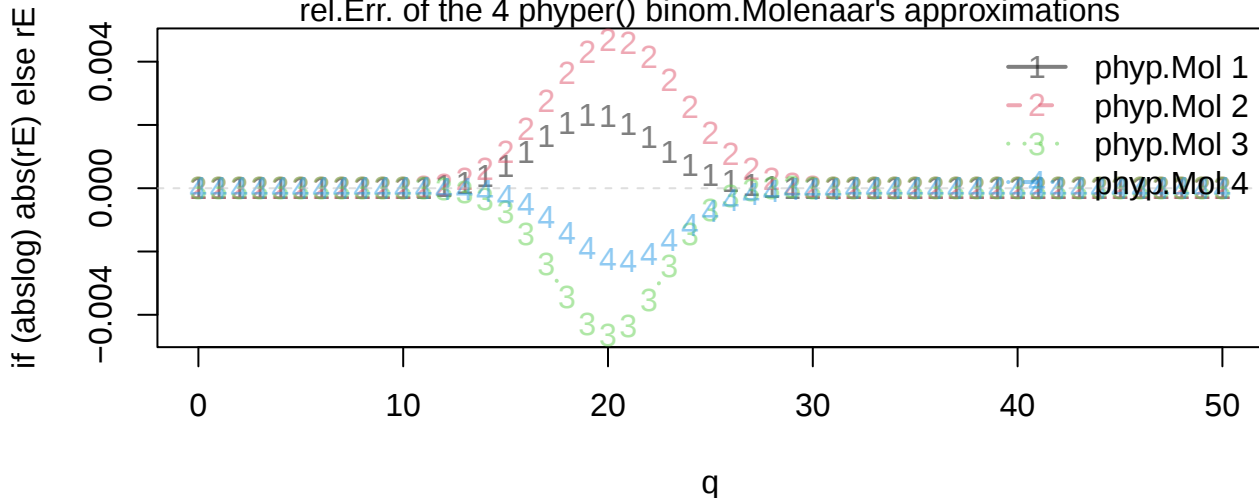
phyper(*, m = 70, n = 100, k = 20)

|rel.Err| of the 4 phyper() binom.Molenaar's approximations



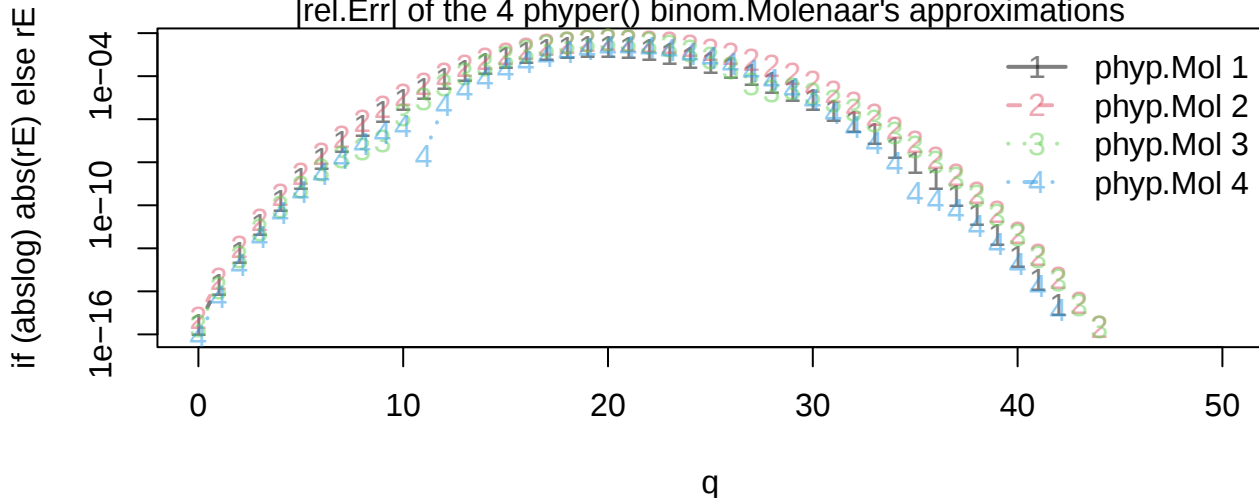
phyper(*, m = 70, n = 100, k = 50)

rel.Err. of the 4 phyper() binom.Molenaar's approximations



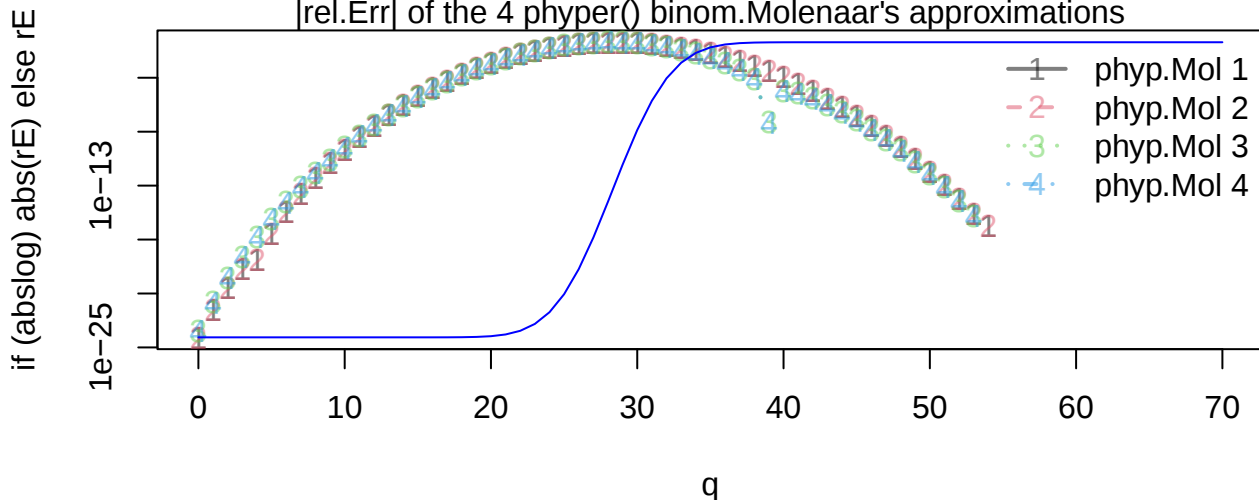
phyper(*, m = 70, n = 100, k = 50)

|rel.Err| of the 4 phyper() binom.Molenaar's approximations



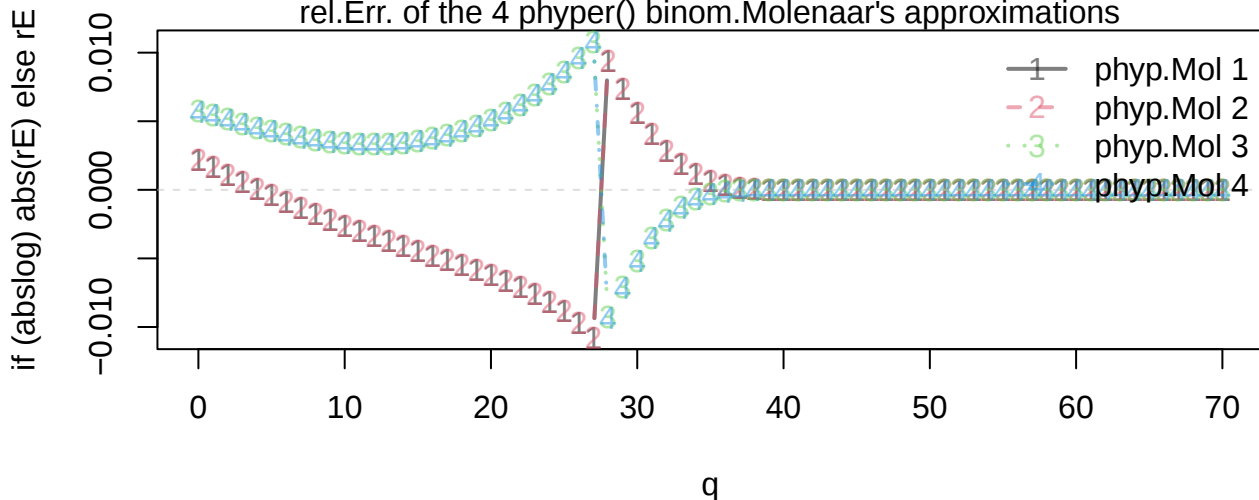
phyper(*, m = 70, n = 100, k = 70)

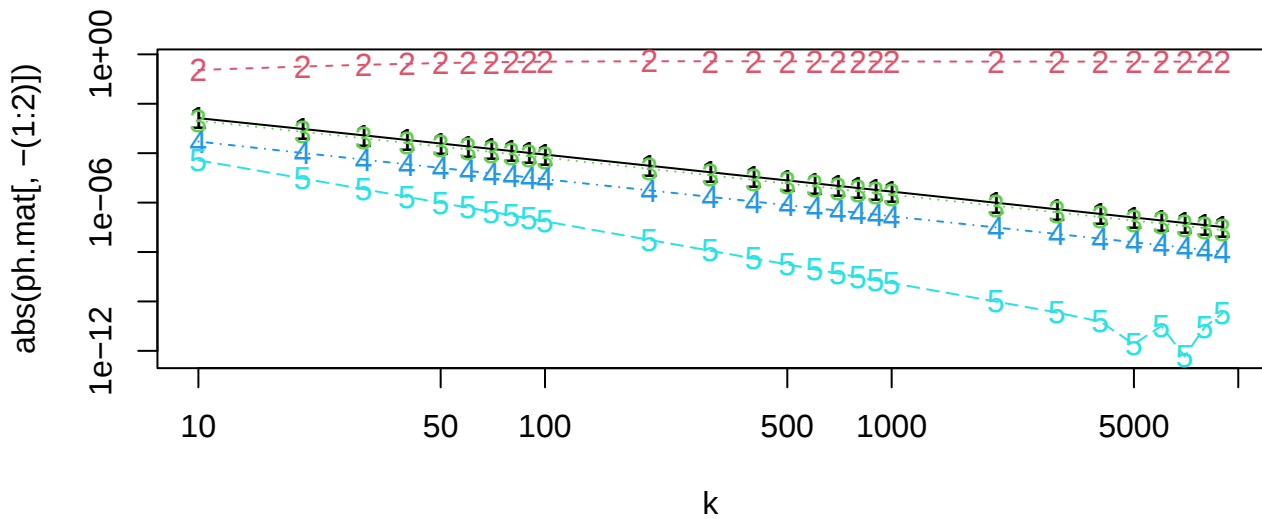
|rel.Err| of the 4 phyper() binom.Molenaar's approximations



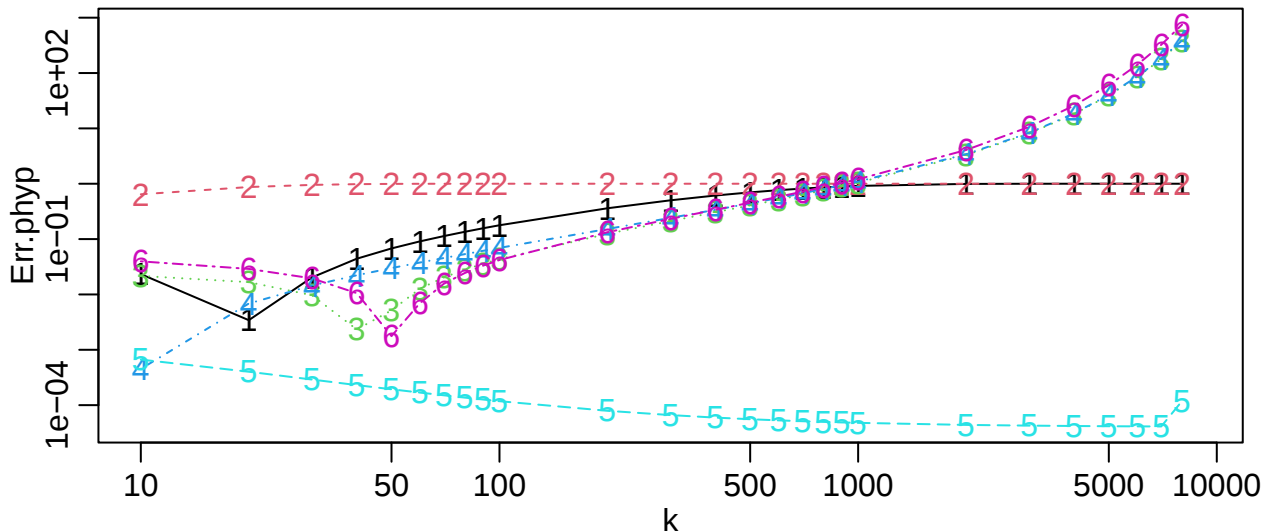
phyper(*, m = 70, n = 100, k = 70)

rel.Err. of the 4 phyper() binom.Molenaar's approximations





phyper() approximations: relative error



phyper() approximations: absolute error

