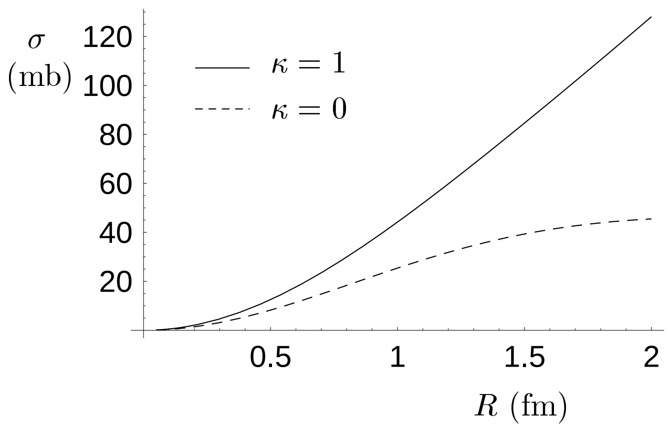

σ (mb)
120
100
80
60
40
20
$\kappa = 1$
$\kappa = 0$
0.5
1
1.5
2
R (fm)