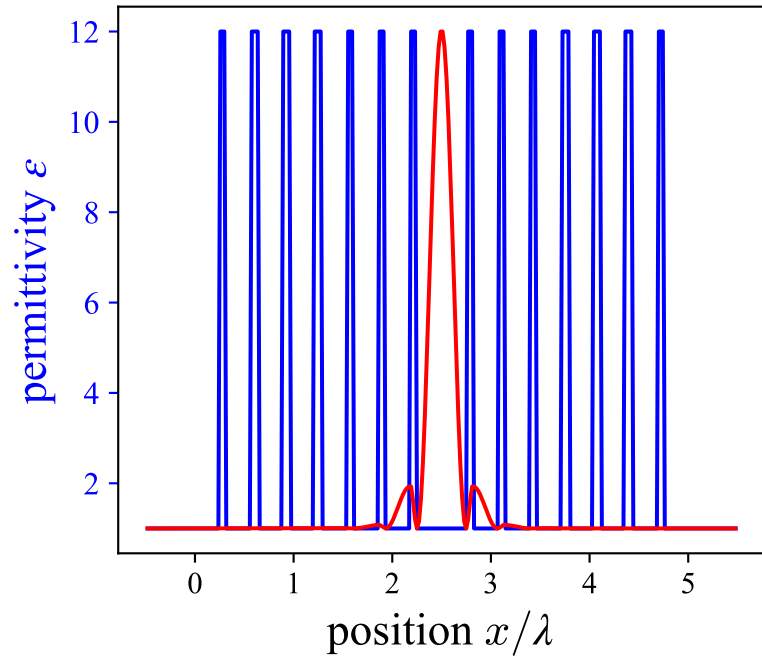
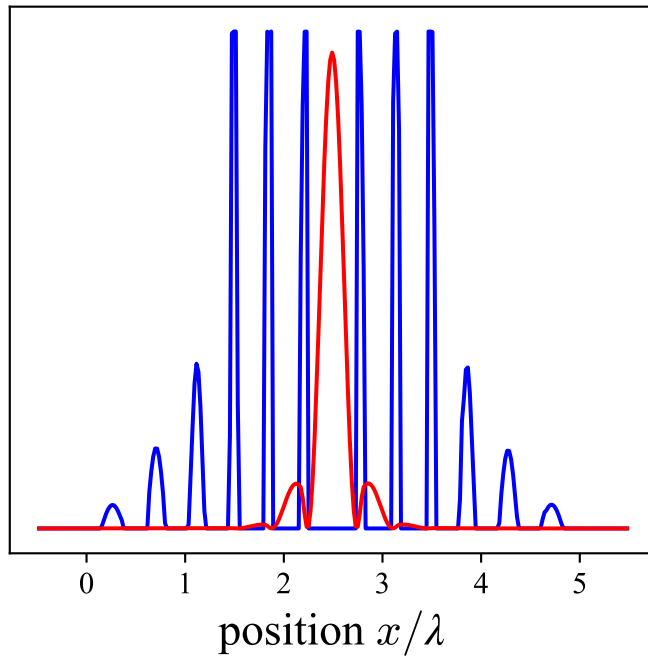


quarter-wave stack ( $Q = 3.97 \times 10^7$ )



unshifted refined optimum ( $Q = 22,600$ )



shifted refined optimum ( $Q = 4.29 \times 10^8$ )

