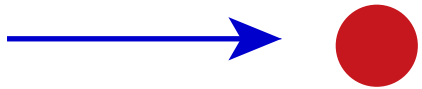
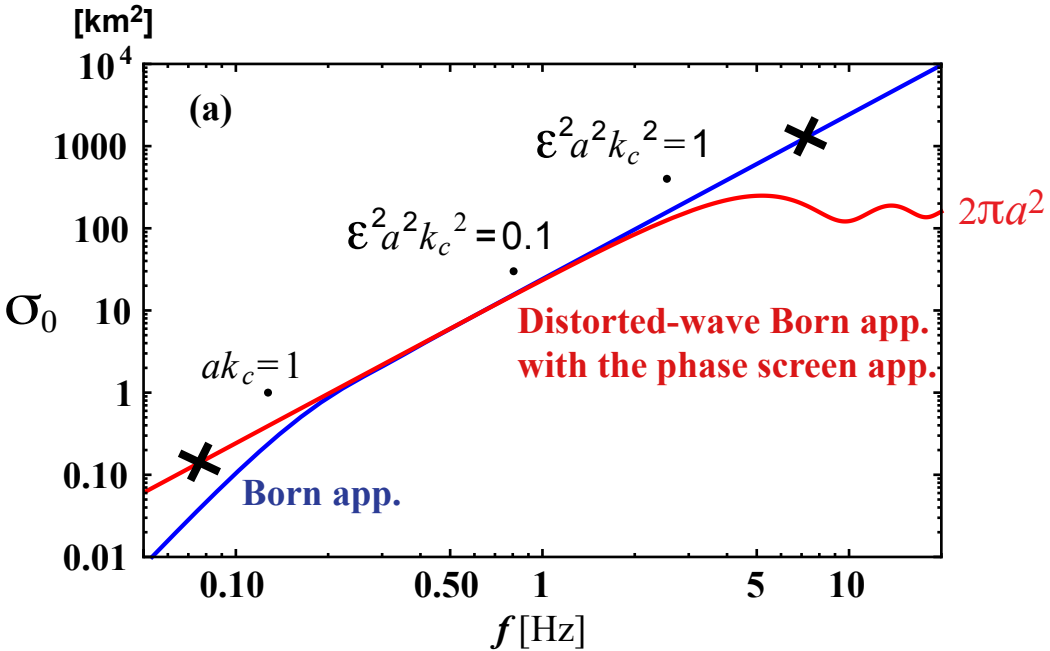
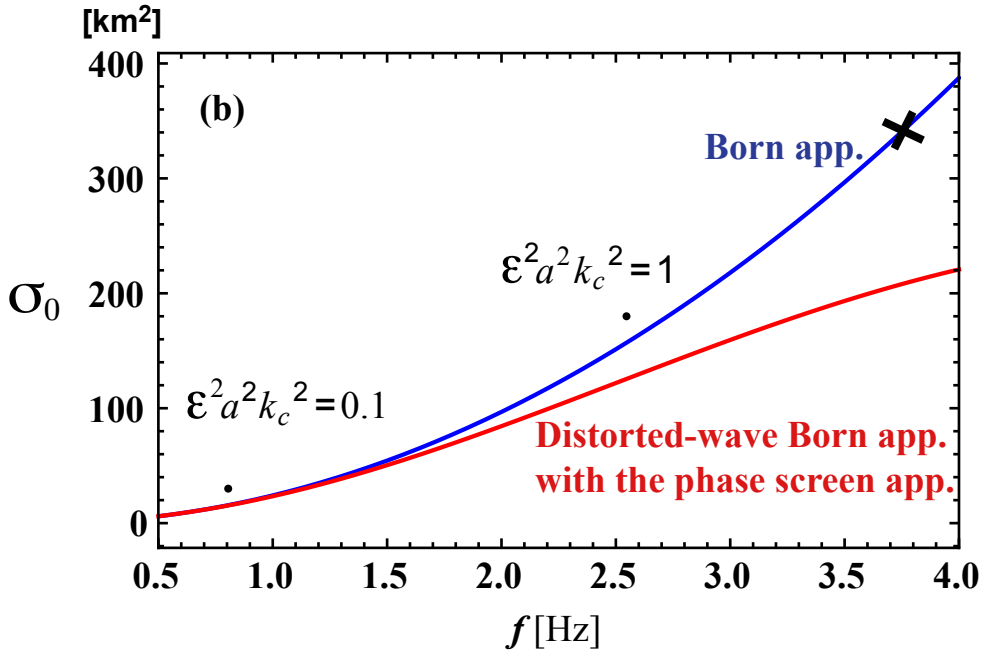
Scattering of scalar wave by a high-velocity sphere



$V(r) = V_0\,(1+\varepsilon)$ for $r < a$

$= V_0$ for $r > a$

(V_0 = 4 km s^{-1}, a = 5 km, ε = 0.05)