

Nucleon-Nucleon and  $^3\text{He}$ - $^3\text{He}$  Potentials

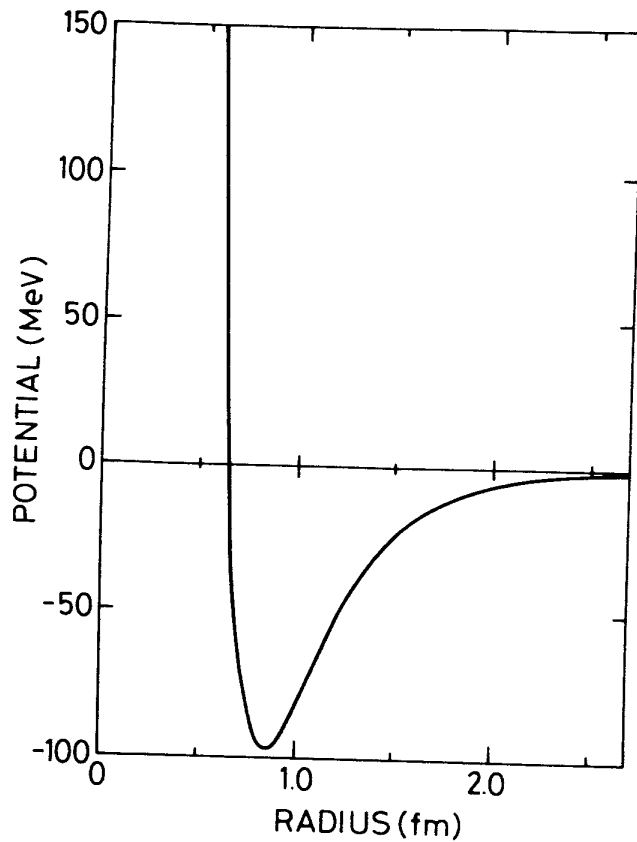
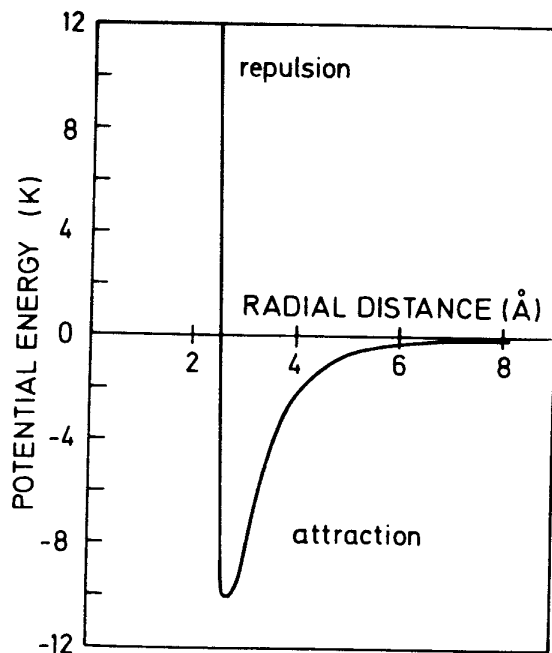


Figure 2.4b Phenomenology of nucleon-nucleon scattering for  $L = S = 0$ .

Reid's phenomenological potential (MeV) as a function of the nucleons' separation (fm).  
 [From R. V. Reid] From Siemens and Jensen, "Elements of Nuclei"



From Vohrhardt and Wölfle,  
 "The Superfluid Phases  
 of Helium 3"

Figure 2.4 Interaction potential of two  $^3\text{He}$  atoms as a function of separation.