

Figure 38.11: Total and elastic cross sections for  $\pi^{\pm}p$  and  $\pi^{\pm}d$  (total only) collisions as a function of laboratory beam momentum and total center-of-mass energy. Corresponding computer-readable data files may be found at http://pdg.lbl.gov/xsect/contents.html (Courtesy of the COMPAS Group, IHEP, Protvino, Russia, August 1999.)