HM

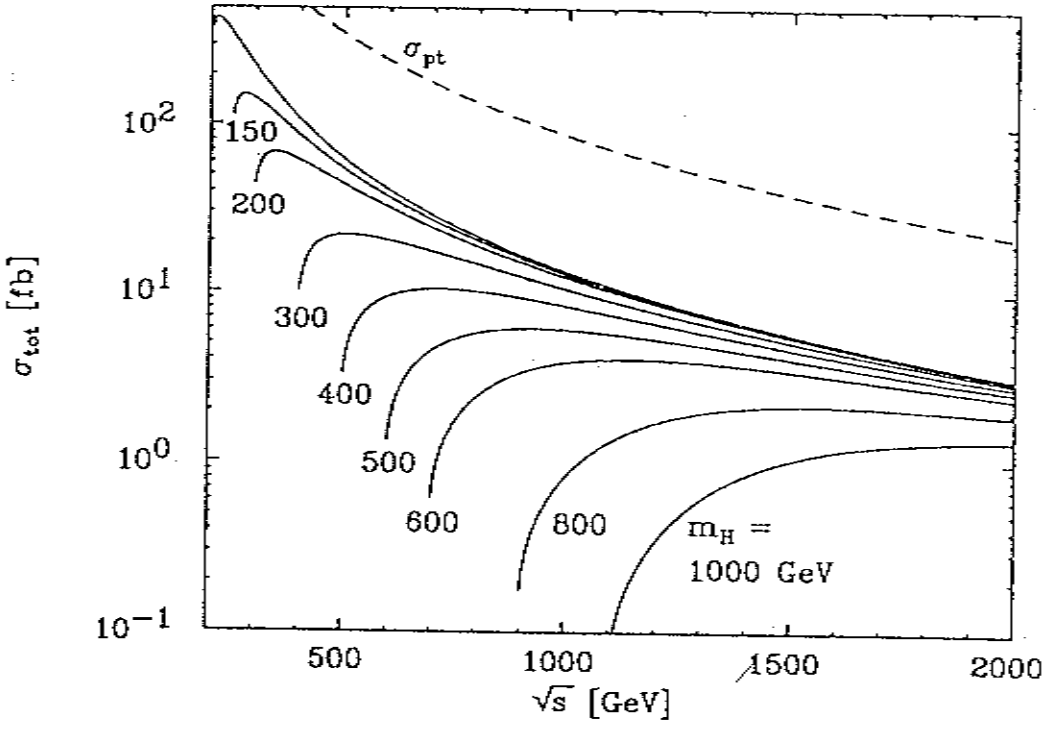

Figure 5.3: Total cross section of the process $e^+e^- \to ZH$ for various mass of the Higgs boson.

Higgs boson. However, even at this energy, the ZH production will play an important role to serve a cross-check to establish the Higgs boson.

Now we discuss the distributions of the final state particles separately.

5.2.1 $e^+e^- \to ZH$

As discussed in the beginning of this section, this