



Figure 2: Higgs-boson production cross sections (fb) at the LHC ( $\sqrt{s} = 14$  TeV) for the most relevant production mechanisms as a function of the Higgs-boson mass. Results for  $gg \rightarrow h$ ,  $q\bar{q} \rightarrow Vh$ ,  $b\bar{b} \rightarrow h$  are at NNLO in the QCD expansion. Weak boson fusion ( $qq \rightarrow qqh$ ) and  $t\bar{t}$  associated production are at NLO accuracy. Single-top associated production ( $qb \rightarrow qth$ ) is at LO.