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Erratum: Testing effective Yukawa couplings in Higgs boson searches at the Tevatron and LHC [Phys. Rev. D 82, 113014 (2010)]

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Because of a mistake in the FORTRAN code, all the VBF curves in Fig. 10 in Phys. Rev. D **82**, 113014 (2010), corresponding to the VBF total cross sections times the Higgs branching ratios at the LHC energy $\sqrt{s} = 7$ TeV, are to be rescaled up by about a factor 10. Below, in Fig. 1, we provide the correct version of the previous Fig. 10. Conclusions are changed accordingly: the impact of the $\sqrt{s} = 7$ TeV LHC run is not as marginal as previously declared at the end of Section V.

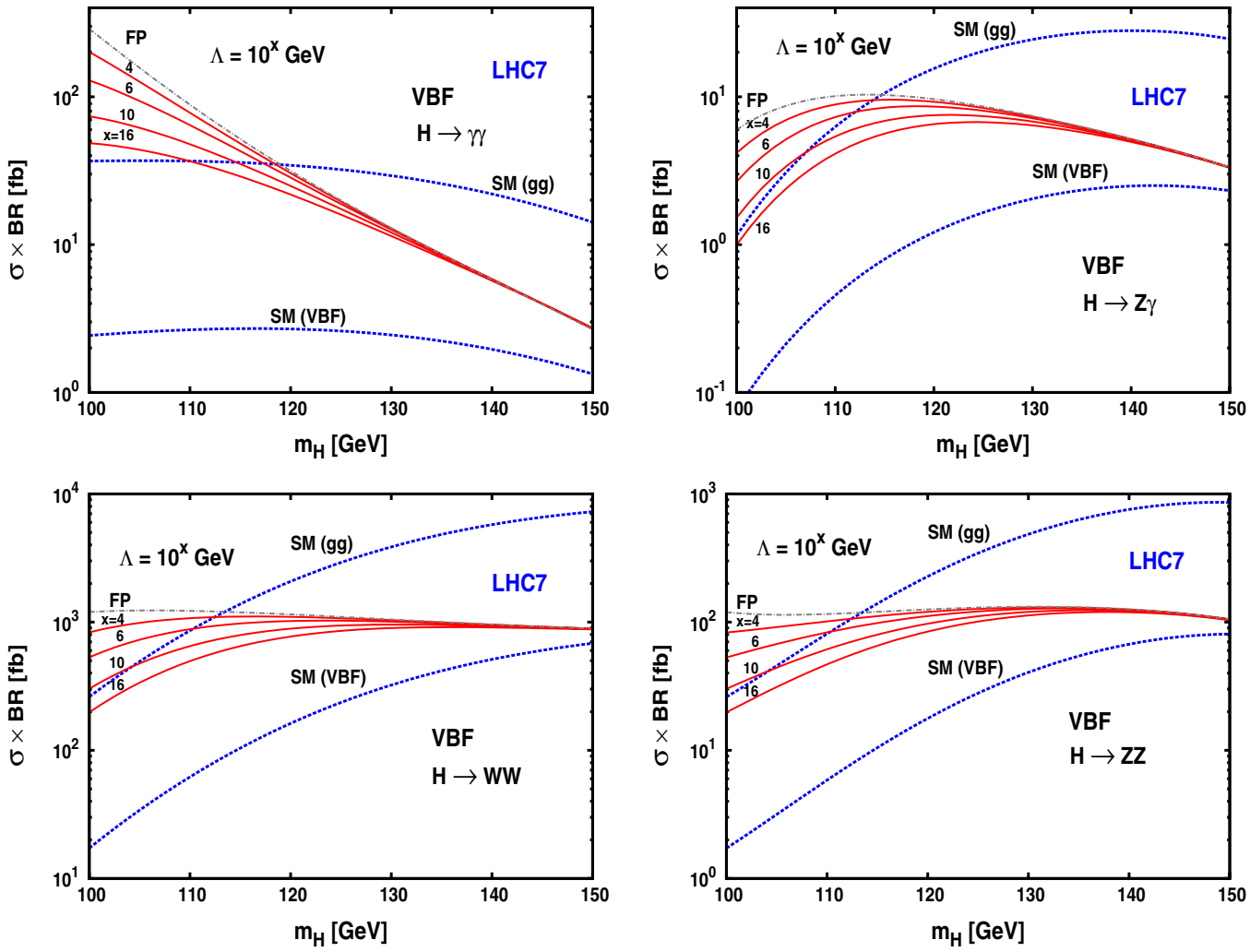

FIG. 1 (color online). Total cross sections times Higgs branching ratios, for pp collisions at the LHC with c.m. energy $\sqrt{S} = 7$ TeV, for the Higgs decaying into EW gauge bosons $H \to \gamma\gamma, Z\gamma, WW, ZZ$, versus the Higgs mass. Continuous (red) lines correspond to the VBF predictions in the effective Yukawa model, for $\Lambda = 10^{4,6,10,16}$ GeV. The dashed (blue) lines and dot-dashed (grey) lines correspond to the SM (mediated by either gg fusion or VBF) and fermiophobic Higgs scenario (FP), respectively.

