



FIG. 12: (12a) Contour levels for 95% C.L. plotted against  $g'_1$  and  $M_{Z'}$  at the LHC for selected integrated luminosities and integrated luminosity required for observation at  $3\sigma$  and  $5\sigma$  vs.  $M_{Z'}$  for selected values of  $g'_1$  (in which only the allowed combination of masses and couplings are shown), for (12b) the LHC at  $\sqrt{s} = 7$  TeV and (12c) the Tevatron ( $\sqrt{s} = 1.96$  TeV), for both electrons and muons. The shaded areas and the allowed ( $M_{Z'}, g'_1$ ) shown are in accordance with eq. (21) (LEP bounds, in black) and table II (Tevatron bounds, in red for electrons and in green for muons).