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We briefly present in this talk part of the work that the group of phenomenology at the IFLP (Conicet - Universidad de La Plata) has been carrying out over the last few years and some of the prospects for the near future. The studies to be addressed include topics in Higgs and top physics and a preliminar analysis on dark matter. In particular, we discuss lepton flavor violation in Higgs decays, pair production of heavy Higgs bosons at the LHC, CP-odd observables in the top-Higgs interaction and the building of a WIMP model that naturally evades the stringent constraints from dark matter direct detection.

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