

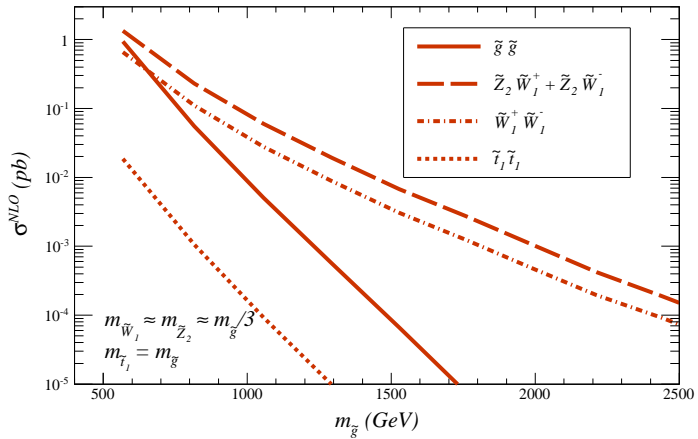
Looking for EW Inos @ LHC

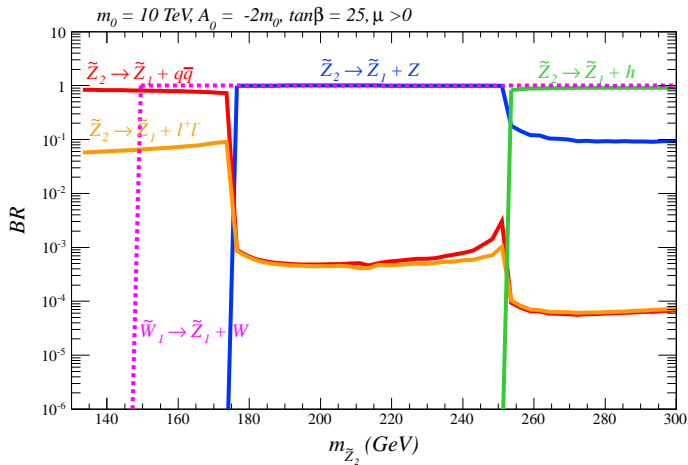
André Lessa

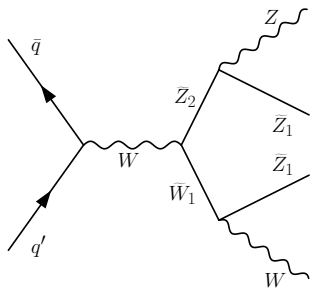
Universidade de Sao Paulo

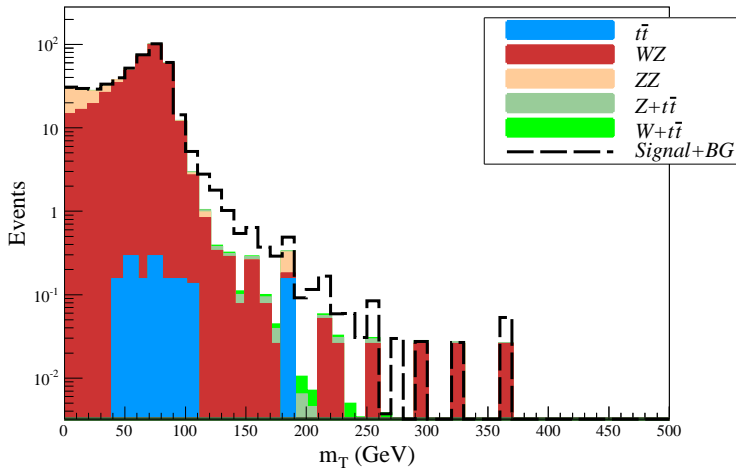
MadGraph Workshop - Natal

In collaboration with H. Baer, V. Barger, S. Kraml, W. Sreethawong and X. Tata



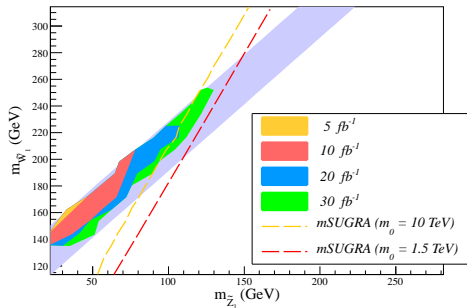
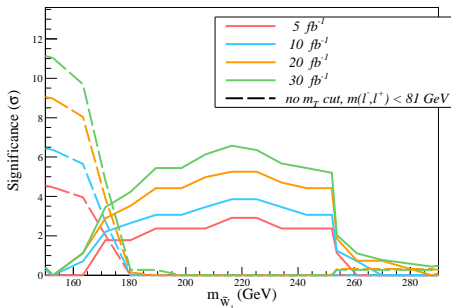






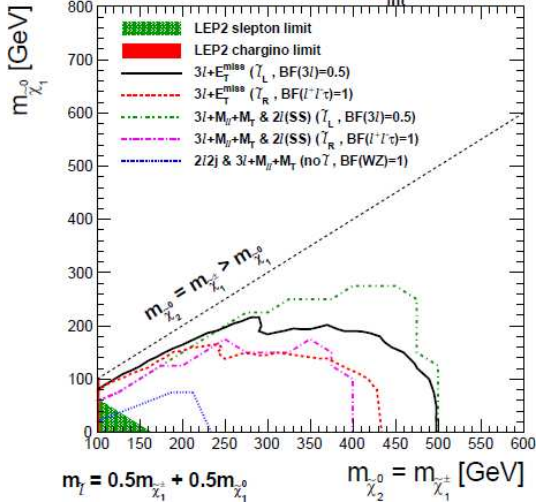
$\cancel{E}_T > 50$ GeV, $n(l) = 3$, $n(b) = 0$, $|m_{ll} - m_Z| < 10$ GeV

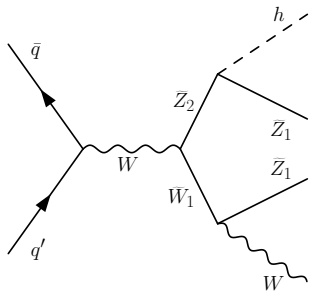
LHC7

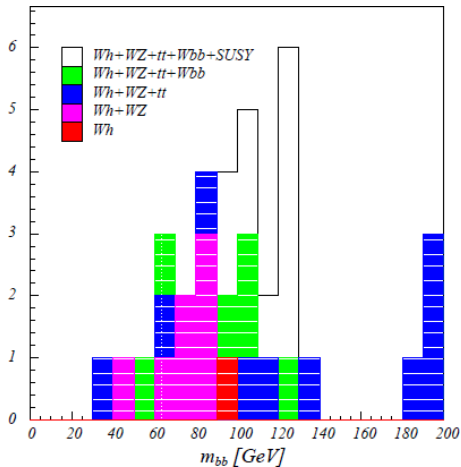


CMS

$\sqrt{s} = 7 \text{ TeV}$, $L_{int} = 4.98 \text{ fb}^{-1}$



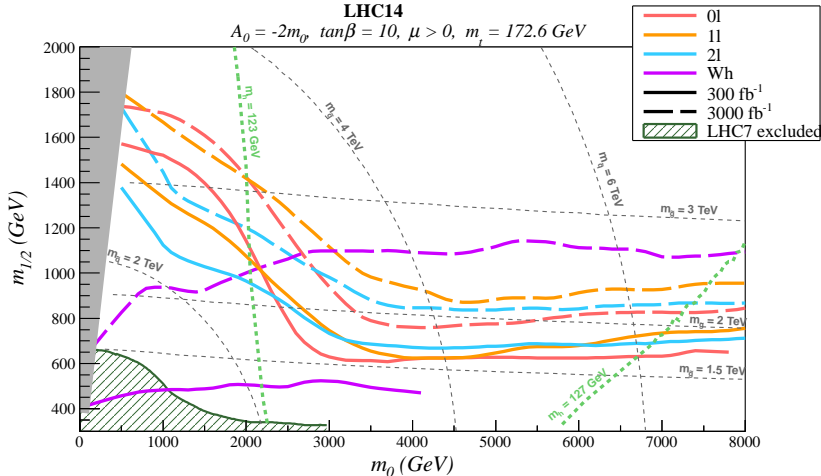




$\cancel{E}_T > 220$ GeV, $M_{eff} > 350$ GeV, $n(l) = 1$, $n(b) = 2$, 110 GeV
 $< m_{bb} < 130$ GeV, $\Delta\phi(bb) < \pi/2$

LHC14

$A_0 = -2m_0$ $\tan\beta = 10$, $\mu > 0$, $m_t = 172.6$ GeV



- ▶ What's next?
 - EW Inos bounds in low μ models
 - Connection to a_μ
 - FT from gaugino bounds

- ▶ Non-Iino related projects:
 - Pheno of SUSY axions
 - Natural SUSY/inverted hierarchy scenarios