Figure 4: Expected (open dots with 1σ and 2σ bands) and observed (full dots) cross-section times branching fraction upper limits at 95% confidence level, as a function of the LLP mass from the 8 TeV dataset. The theoretical models assume the full set of SUSY production processes available in PYTHIA 6 with default parameter settings, unless otherwise specified. The flavour decay structure of the LLP is explained in the text. The two upper plots are obtained with a squark mass of 1300 GeV/c^2, \( \tau_{\text{LLP}} = 5 \text{ ps} \) and 50 ps. The two bottom plots have \( \tau_{\text{LLP}} = 10 \text{ ps} \), common squark mass values of 200 GeV/c^2 and 1575 GeV/c^2. The gluino mass is kept at 2000 GeV/c^2.