

Number of events

ATLAS Internal

$N_{\text{jet}}^{\text{fat}} \geq 4, M_{J,4}^{\Sigma} \geq 870 \text{ GeV}, |\Delta\eta(j1,j2)| \leq 1.00$

---●--- Dijets (Herwig++)

---▲--- $m_{\tilde{g}} = 800 \text{ GeV}, m_{\tilde{\chi}_1^0} = 175 \text{ GeV}$

---○--- $m_{\tilde{g}} = 1.2 \text{ TeV}, m_{\tilde{\chi}_1^0} = 175 \text{ GeV}$

---■--- $m_{\tilde{g}} = 600 \text{ GeV}, m_{\tilde{\chi}_1^0} = 175 \text{ GeV}$

---▼--- $m_{\tilde{g}} = 1.0 \text{ TeV}, m_{\tilde{\chi}_1^0} = 175 \text{ GeV}$

---□--- $m_{\tilde{g}} = 1.4 \text{ TeV}, m_{\tilde{\chi}_1^0} = 175 \text{ GeV}$

Total jet mass, $M_{J,4}^{\Sigma} [\text{TeV}]$

10^5

10^4

10^3

10^2

10

1

0

0.2

0.4

0.6

0.8

1

1.2

1.4