Fraction of events

**ATLAS** Simulation
2 b-tag, loose selection
solid line indicates that $m_{jj} = m_H$
constraint is applied

- $m_X = 260$ GeV
- $m_X = 300$ GeV
- $m_X = 350$ GeV
- $m_X = 400$ GeV
- SM $\gamma\gamma$+jets

$m_{\gamma\gamma jj}$ [GeV]