

Systematic uncertainty	Value	Applied to	Comments
Background event count	15–100%	Background	event-level, based on scalar boson mass & category
Transfer factor f_1	15–100%	Background	only non- <i>prompt</i> categories
Transfer factor f_2	10–30%	Background	only non- <i>prompt</i> categories
Higgs boson p_T spectrum	17%	Signal	event-level
SV reco.	5–40%	Signal	per SV, based on category
Reco. scalar boson mass reso.	1–10%	Signal	per scalar boson mass, based on category
Muon isolation	2–12%	Signal	event-level, based on scalar boson mass
Hadron isolation	6–16%	Signal	event-level, based on scalar boson mass
Reco. hadronic tracks	4–5%	Signal	per hadron
Muon identification	0.6%	Signal	per muon
Reco. close muons	1%	Signal	event-level
Reco. displaced muons	5%	Signal	per muon
Trigger	5–13%	Signal	event-level
Pileup modeling	1%	Signal	event-level
Integrated luminosity	1–3%	Signal	event-level
MC event count	2–15%	Signal	event-level