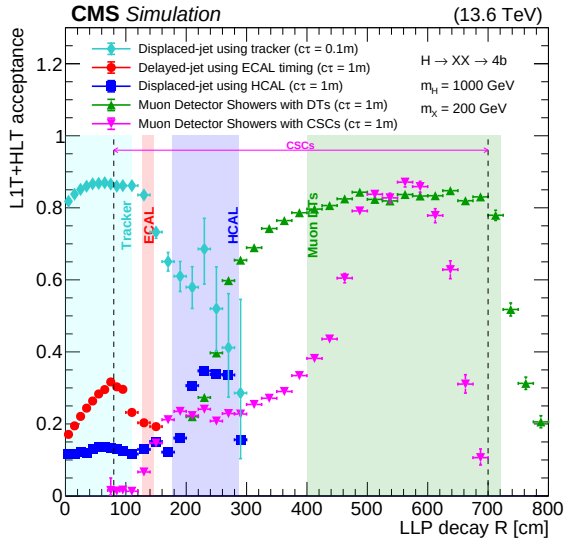
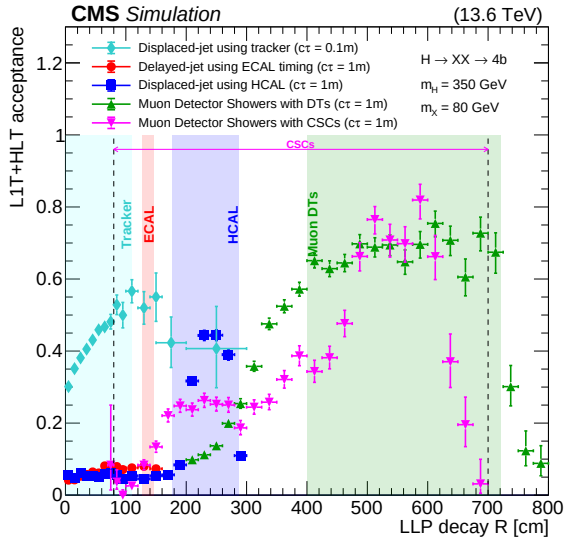
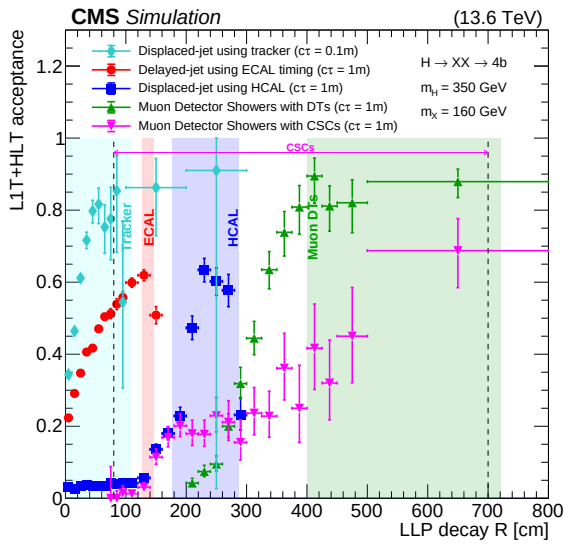
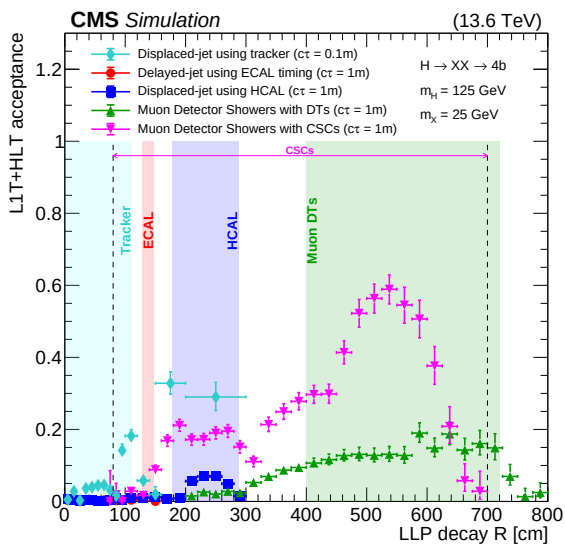

CMS Simulation
(13.6 TeV)
Displaced-jet using tracker (cτ = 0.1m)
Delayed-jet using ECAL timing (cτ = 1m)
Displaced-jet using HCAL (cτ = 1m)
Muon Detector Showers with DTs (cτ = 1m)
Muon Detector Showers with CSCs (cτ = 1m)
H → XX → 4b
m_H = 1000 GeV
m_X = 200 GeV
CSCs
Tracker
ECAL
HCAL
Muon DTs
L1T+HLT acceptance
LLP decay R [cm]


CMS Simulation
(13.6 TeV)
Displaced-jet using tracker (cτ = 0.1m)
Delayed-jet using ECAL timing (cτ = 1m)
Displaced-jet using HCAL (cτ = 1m)
Muon Detector Showers with DTs (cτ = 1m)
Muon Detector Showers with CSCs (cτ = 1m)
H → XX → 4b
m_H = 350 GeV
m_X = 80 GeV
CSCs
Tracker
ECAL
HCAL
Muon DTs
L1T+HLT acceptance
LLP decay R [cm]


CMS Simulation
(13.6 TeV)
Displaced-jet using tracker (cτ = 0.1m)
Delayed-jet using ECAL timing (cτ = 1m)
Displaced-jet using HCAL (cτ = 1m)
Muon Detector Showers with DTs (cτ = 1m)
Muon Detector Showers with CSCs (cτ = 1m)
H → XX → 4b
m_H = 350 GeV
m_X = 160 GeV
CSCs
Tracker
ECAL
HCAL
Muon DTs
L1T+HLT acceptance
LLP decay R [cm]


CMS Simulation
(13.6 TeV)
Displaced-jet using tracker (cτ = 0.1m)
Delayed-jet using ECAL timing (cτ = 1m)
Displaced-jet using HCAL (cτ = 1m)
Muon Detector Showers with DTs (cτ = 1m)
Muon Detector Showers with CSCs (cτ = 1m)
H → XX → 4b
m_H = 125 GeV
m_X = 25 GeV
CSCs
Tracker
ECAL
HCAL
Muon DTs
L1T+HLT acceptance
LLP decay R [cm]