Single Particle:

 Type: Electron, Muon, Pion, Photon & Neutron;

 Energy Range: 0.1-150 GeV

 Observable: (As a function of Pola angle & energy)

 Reconstruction efficiency,

 Chance of splitting &

 Energy resolution.

On pure Higgs signal sample:

 Z->inclusive, H->di photon:

 Efficiency & sigma/Mean of Higgs invariant mass peak;

 //Checking ECAL & Tracker Material

 Z->invisible,

 H->bb, Once Efficiency at 80%, Corresponding efficiency

 H->cc, Once Efficiency at 60%, Corresponding efficiency

 //Checking PFA & Flavor Tagging

 Z->ll, H->inclusive,

 Recoil mass spectrum

 //Checking Lepton ID & Tracker Resolution

 Z-> vv, H->tautau

 Tagging efficiency for different H->tautau decay mode

 //Checking Tracking, PFA & Impact Parameter

 Z->ll, H->WW\*->lvqq

 Tagging efficiency for different lepton modes:

 3e, 2e +mu, 2mu + e, 3\*mu

 //Lepton ID & JER

 Z->qq, H->invisible

 Recoil mass spectrum

 //JER