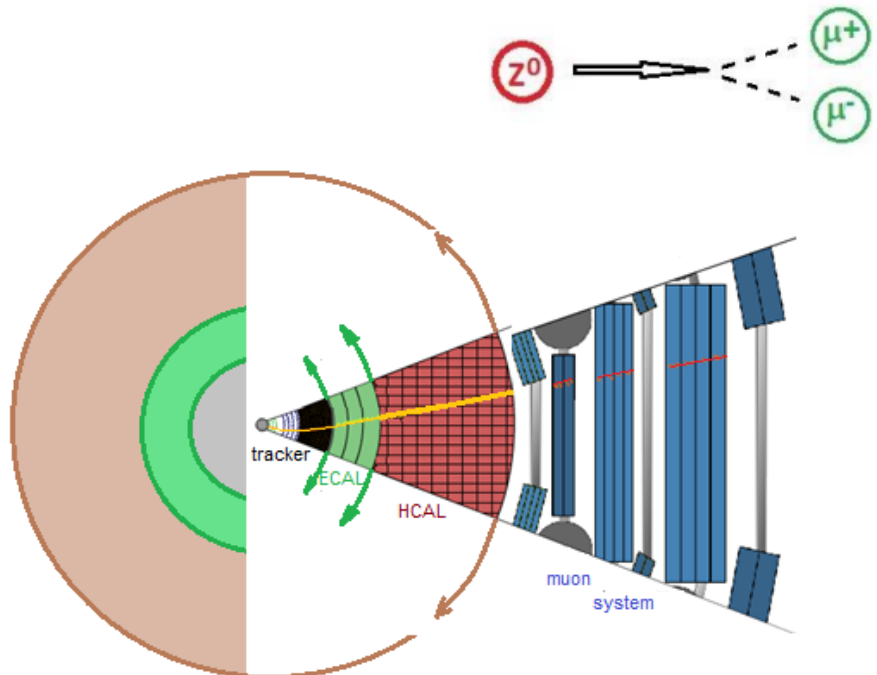


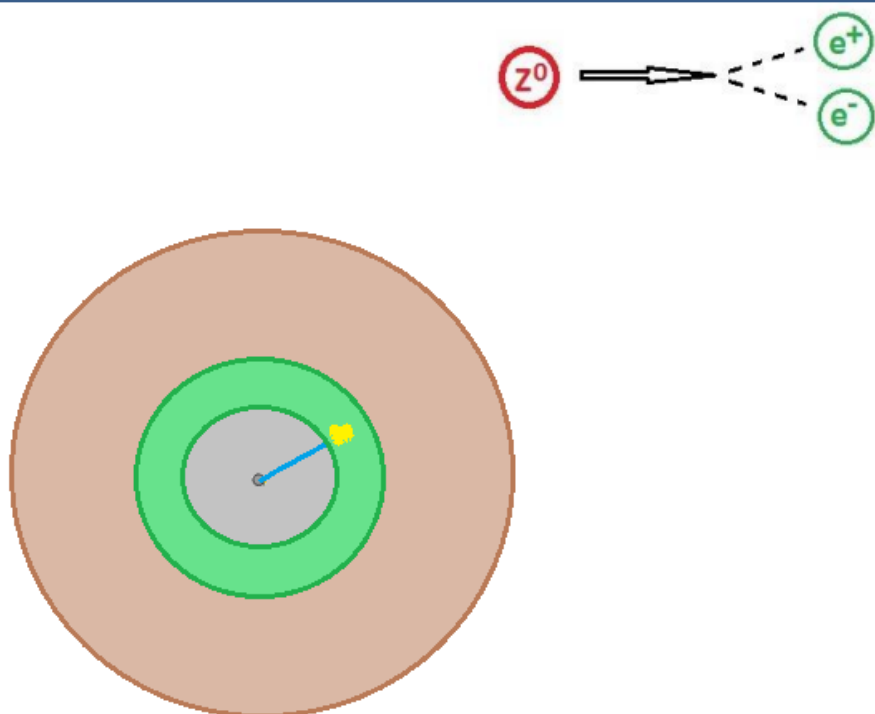
Sketch the tracks in ATLAS.

$$(Z^0) \rightarrow \mu^+ \mu^-$$



Complete the circles for ECAL and HCAL. One muon travels through the detector slice. Draw the other muon, roughly opposite from the vertex.

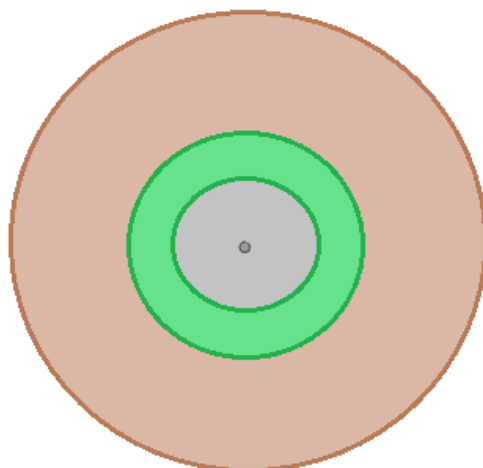
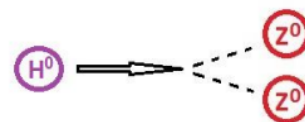
$$(Z^0) \rightarrow e^+ e^-$$



One electron travels through the tracker and deposits in ECAL. Draw the other electron.

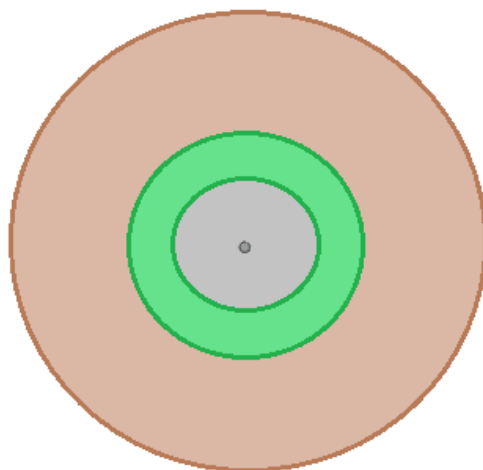
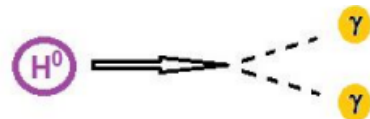
Sketch the tracks in ATLAS.

$(H^0) \rightarrow (Z^0 Z^0) \rightarrow 4 \text{ leptons}$



Each Z promptly decays into 2 muons or 2 electrons. Draw a combination of muons and/or electrons that results.

$(H^0) \rightarrow \gamma\gamma$



Each photon (γ) is undetected by the tracker but leaves a deposit in ECAL. Draw them.