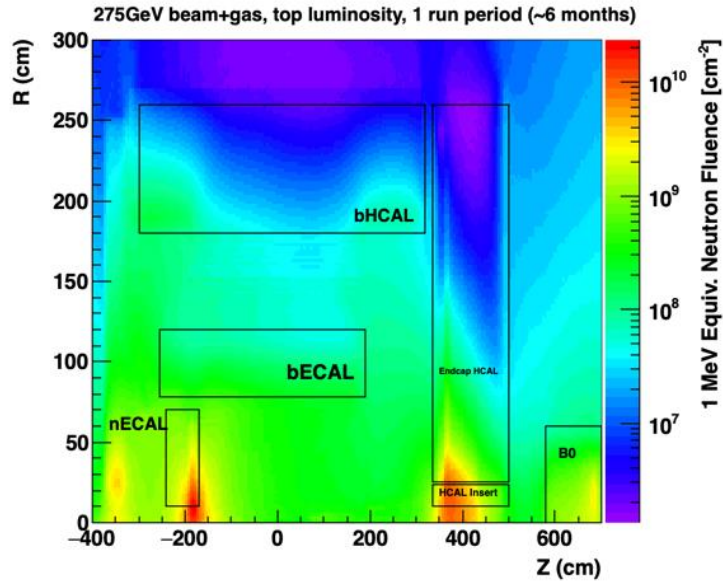


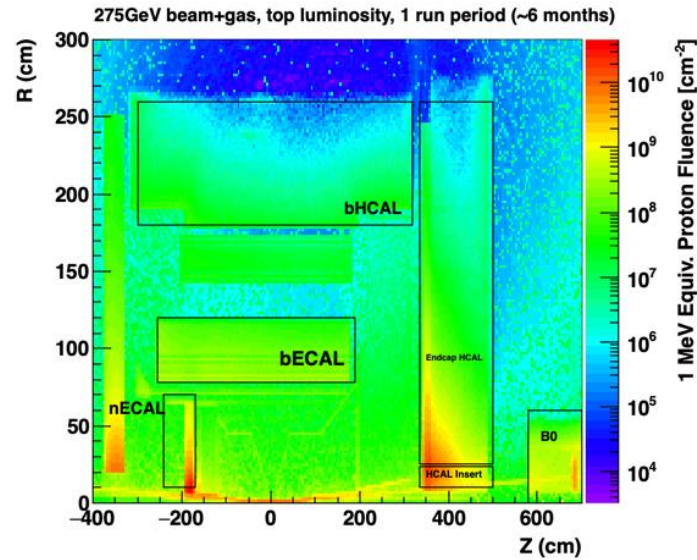
# Radiation levels at the ePIC detector

## Neutrons



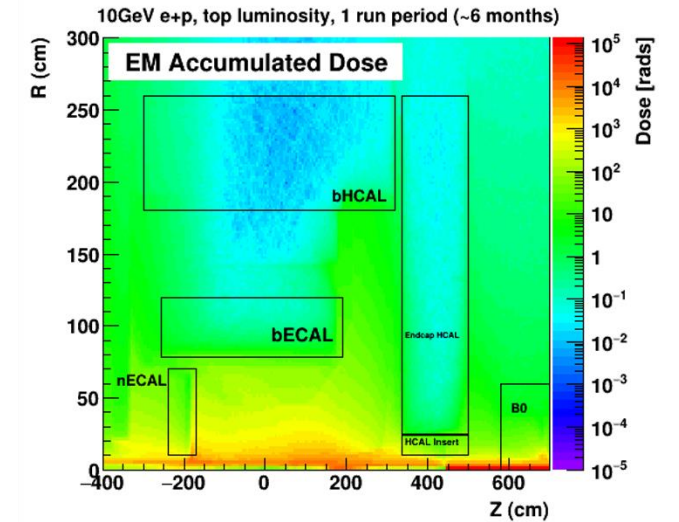
1 MeV equivalent neutron fluence for 275 GeV hadron beam+gas events @ top machine luminosity for 6 months of running at 100% machine and detector efficiency.

## Protons



1 MeV equivalent proton fluence for 275 GeV hadron beam+gas events @ top machine luminosity for 6 months of running at 100% machine and detector efficiency.

## Electrons + Photons



EM radiation dose for 10 GeV electron beam+gas events @ top machine luminosity for 6 months of running at 100% machine and detector efficiency.

~ $10^9$  1 MeV eq hadronic fluence per year at the backward ECAL photosensors and front-end electronics

~100 Rad per year EM dose at the backward ECAL photosensors and front-end electronics