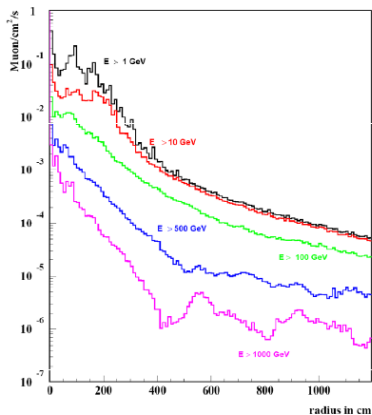


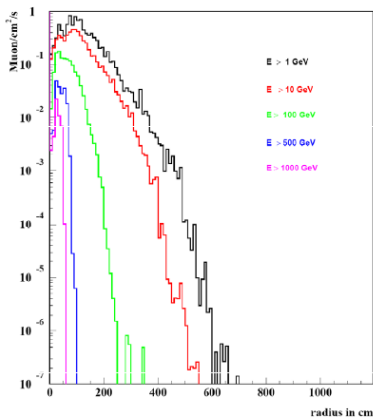
Muon Radial Distributions at Z=22.6m

Beam-gas



Muon radial distributions at CMS: beam-gas, MARS15

Beam-halo

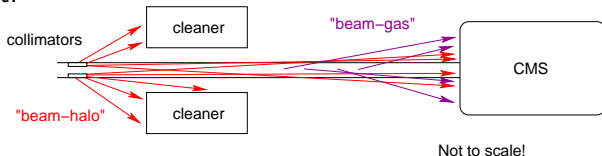


Muon radial distributions at CMS: beam-halo, MARS15



"Beam-halo" versus "Beam-gas"?

- ▶ We have not been making a distinction, but this is how I understand it:



Not to scale!

For alignment:

- ▶ Inner ring may be covered by beam-halo, but only beam-gas provides high-momentum tracks

For TeV-showering studies (Joe Gartner):

- ▶ Only beam-gas will do

When single-beam/machine studies begin in June and we collect CSC data, we should be most interested in days with bad vacuum, rather than days with narrow collimators