

HV Scans to produce efficiency curves of the GEMs on the EEL clean room cosmic stand

- The goal is to produce “Efficiency vs HV” plots for all the GEM modules on the layers (currently 5 layers on the stand, thus 20 modules)
- Here, “efficiency” is determined => # of hits in the module per certain number of trigger events ; not absolute/track based efficiency
- We are only interested in the trend of the efficiency curve to find out the smallest voltage at which the efficiency plateau is reached
- Run Plan
 - > Select a layer at a time and vary the HV of that layer (All 4 modules) from 3.7 KV to 4.1 KV in steps and take ~200K trigger events at each HV value
 - > Keep the GEM modules in rest of the 4 layers @ 4.1 KV

