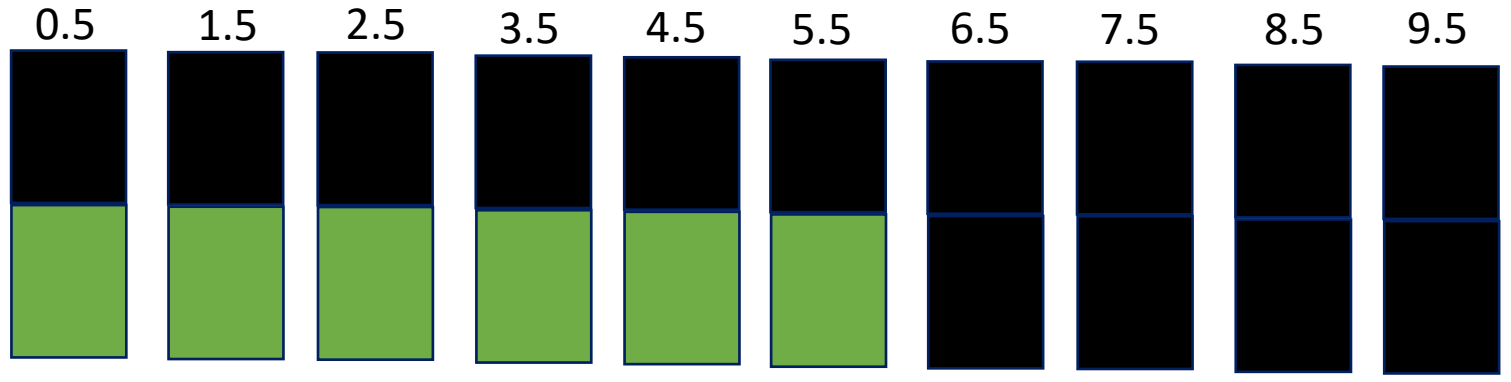


It is time to decide on the plunger foil/screen installation, including:

- Where to put screens (and what size)
- Where to put laser beam dumps (material, thickness, angle)



When there is no screen → double the foil position

Discussion points

1. Accelerated bunch charge needs to be large enough to be detected, and to hopefully get an emittance measurement
 1. in order to do so, the transverse size of the e-beam at the injection point most likely needs to be made as small as possible, unless the e-bunch drives significant wakefields.
 2. electrons need to enter the entrance aperture
2. e-bunch size measurement at two screen locations

we need to know the size of the e-beam at the previous screen(s) to determine the size and shape of the screens needed

 1. we need the overlap between the e-beam envelope and the 'tube' of wakefield to ascertain over what range overlap and possible capture may exist.
--there is a sort of exclusion principle with capture not near the axis and injecting deep into the source
3. the laser beam stopper create addition shower particles by the p+s and thus affects the e- energy measurements.
 1. Did measurements during the last run yield any signal?
 2. local variation of the background with/without the foil?
 3. Interaction probabilities