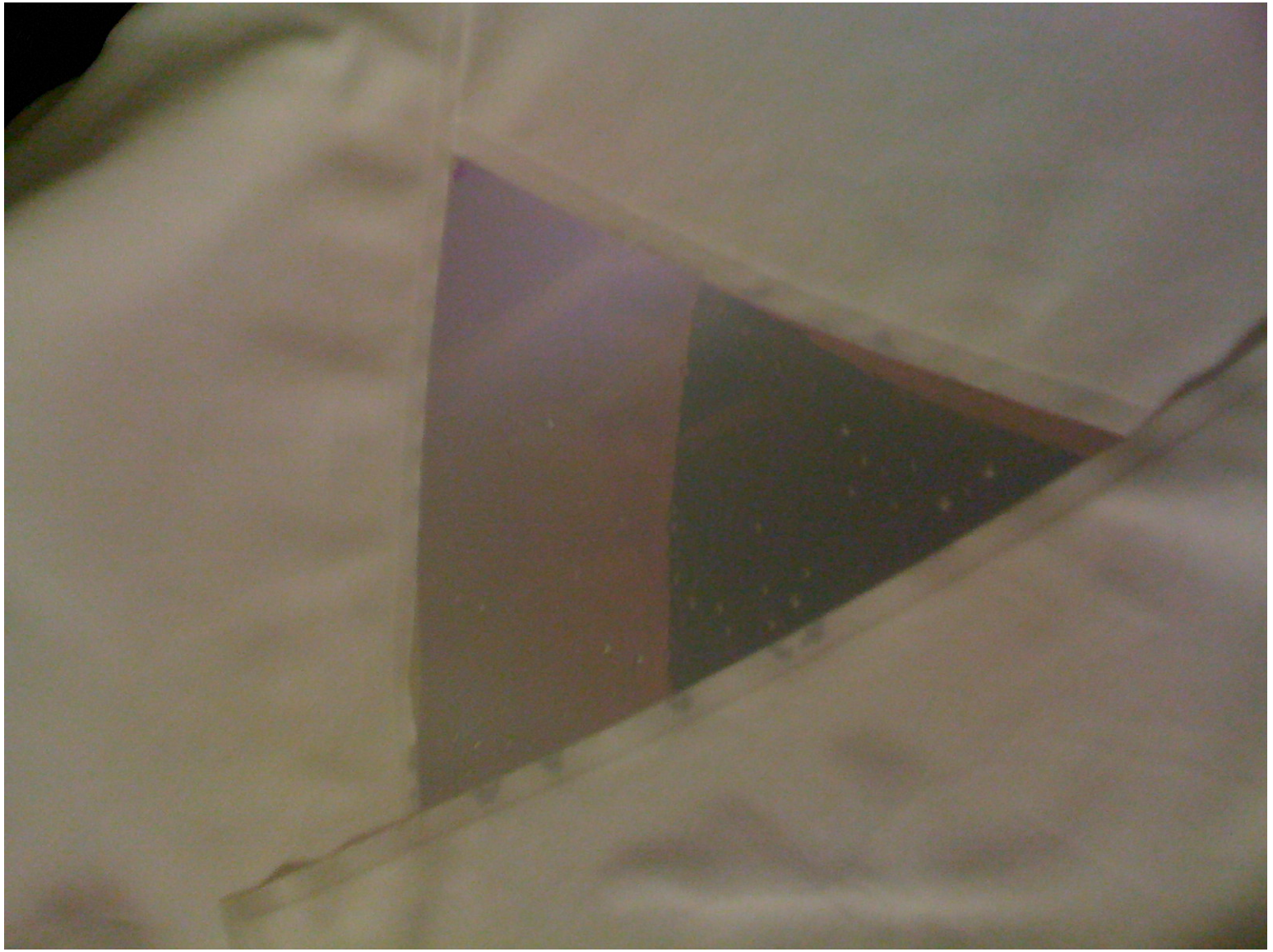
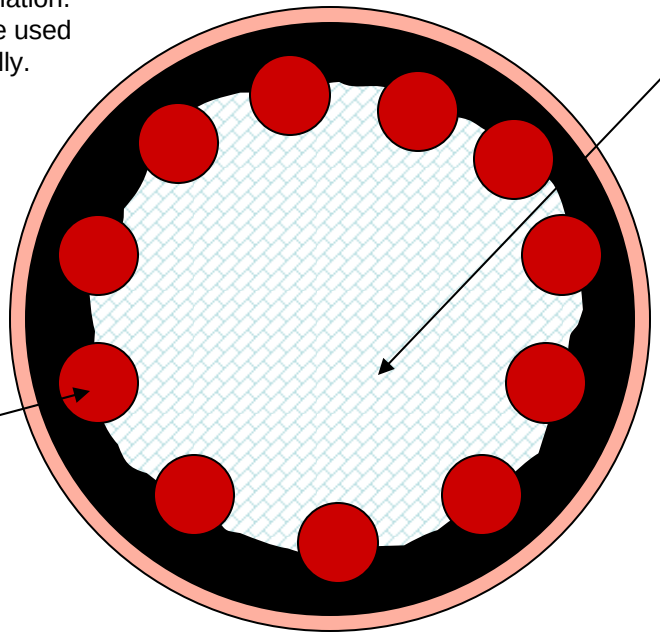


Sprayed First Contact iLIGO TM (weekend dry). This is very messy. Need the right fixture. Concepts discussed with Calum Torrie.

We can potentially leave the ring on during the installation. Duplicate rings with disposable membranes might be used for reapplying & removing FC when mounted vertically.

Discussing with Calum design strategy compatible all the other systems and the install procedure.

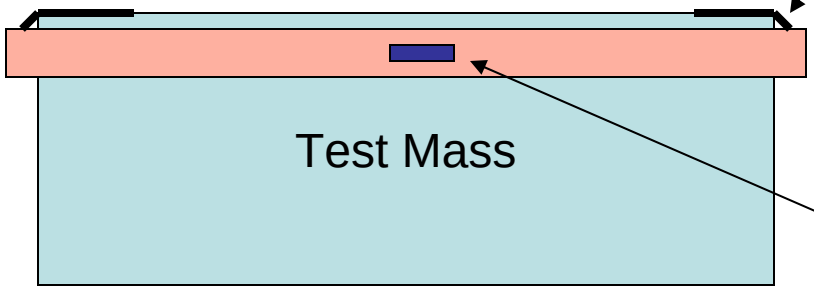


First Contact sprayed onto glass area, and also sprayed + brushed over the border of the mask to thicken it there.

It is left to dry.

When dried, the peel-tape strips are applied.

Peel-Tape Strips



Elastic Membrane.
Scuba suit material.
Spandex.
Formed to make tight masking edge.

Ring clamp.

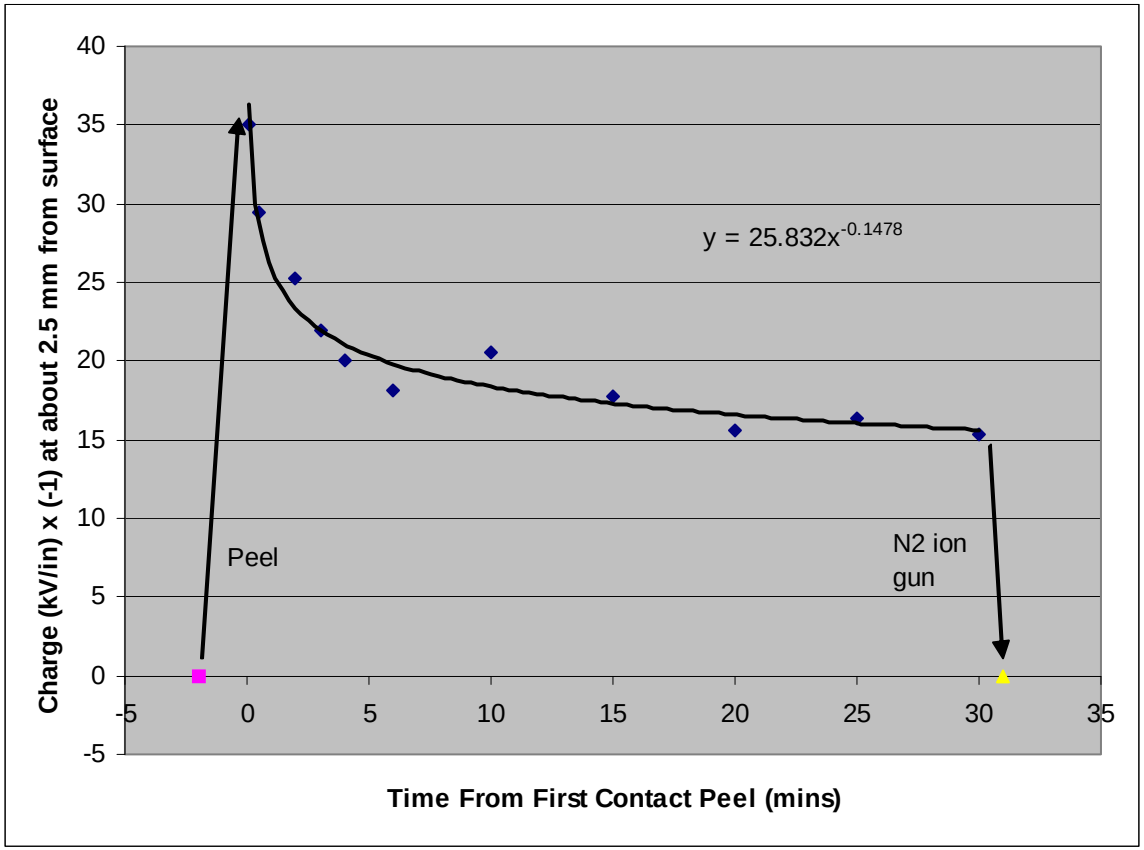
Tightening mechanism.

Measure charge before doing anything, ~ +0.2 kV/ in measured at about 2.5 mm from surface.

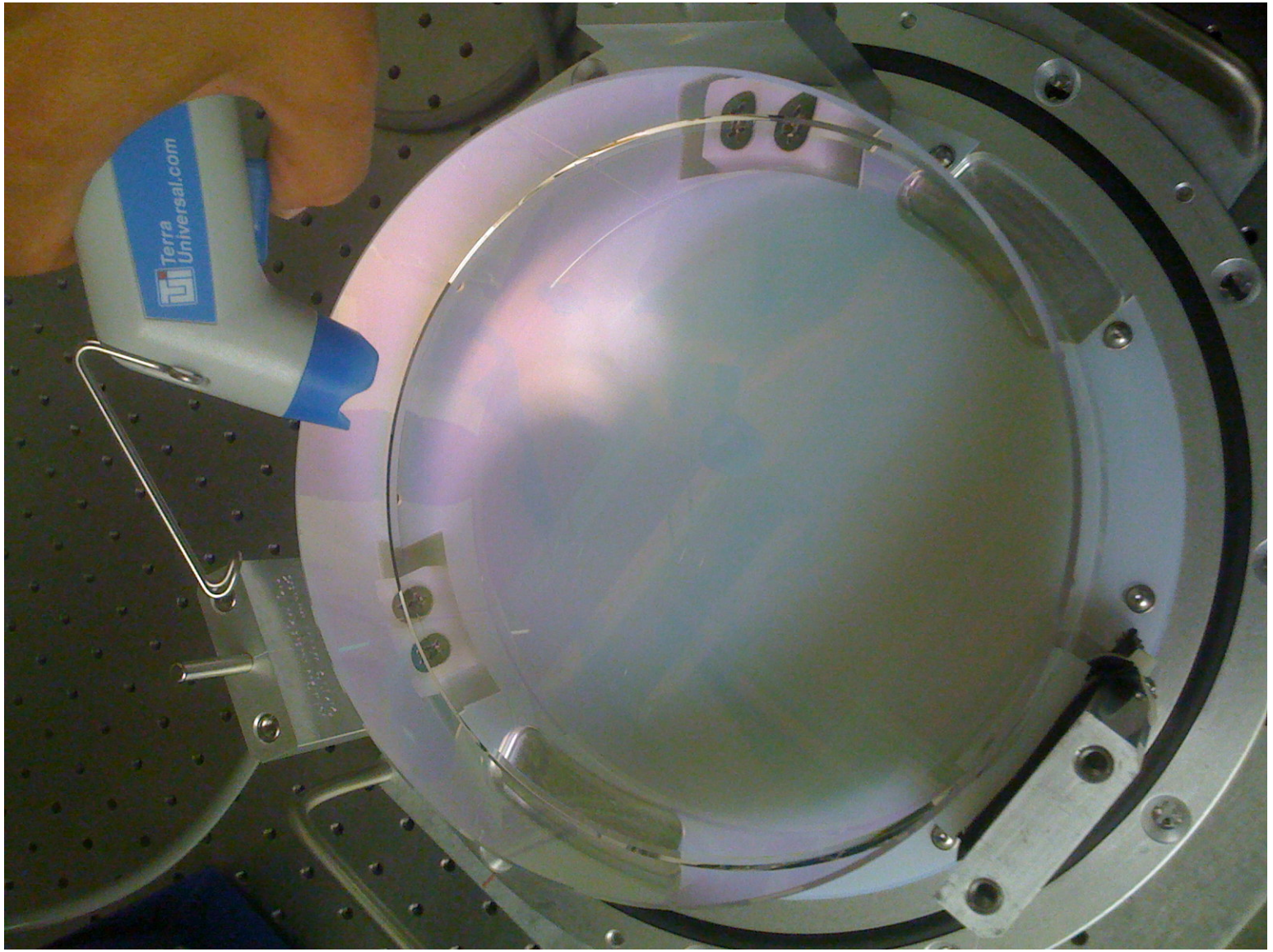
Apply a pattern of peel strips somewhat like what is envisioned with the masking fixture.

Remeasure charge after peel strip application just to make sure it did not charge the surface, still ~+0.2 kV/in.

Peel. Audible crackling can be heard on the static generation. Charge is now large: - 29.5 kV/in. (FC was removed in center triangle, but not at edges where it seeped through cloth).



Decay of the charge with time. Charge is removed after about 10 second blast from N2 ionizer gun.



Blasting with an N2 ionizer gun. ***Note that I am not wearing rubber gloves.***

Rubber gloves are bad. They are insulating and charge up. Need conductive gloves to get charge on hands to ground, -2.3 kV/in here.