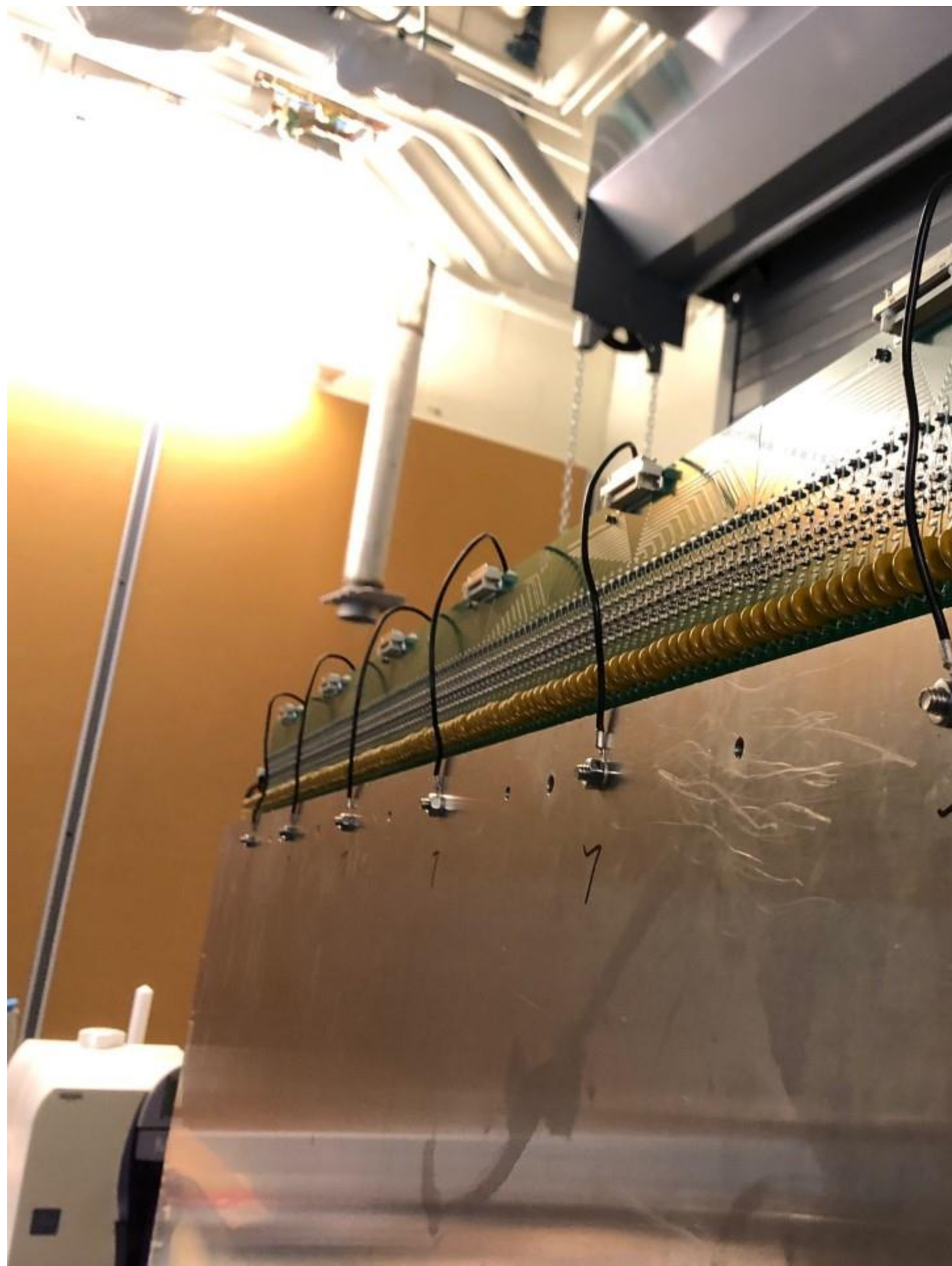


We're meeting tomorrow to discuss detector installation, and I wanted to give you a heads up for where the chamber design is headed. We feel that it's important to have a metal box around the preamp cards on the detector, to shield against RF. To secure the box to the chamber we plan to use several of the 1/4-20 bolts that come through the plates on the preamp side of the detector. The connectors we would use are shown in the attached photo.



There's also a need to use the 1/4-20 bolts for grounding the electronics, as shown in the photo above.

On the "bottom" of the detector, shown below, we won't have a metal box. However we still plan to use 6 of the 1/4-20's for grounding the electronics. This is shown in the photo.



I know at the last meeting there was discussion that the two sides of the chamber would be completely flat, with nothing extending beyond the surface of the aluminum plates. This is going to be difficult to do, given the need for fastening the shielding box to the detector, and providing a good grounding connection to the electronics.

We can discuss this in more detail tomorrow, and I'll try to put together some better diagrams and pictures to look at. One possible solution is to make the iron absorbing plates smaller. Plates 60" x 60" would fit inside the 1/4-20 bolt pattern that goes around the edge of the detector.

Thanks and talk with you tomorrow.

Rory