iORANGE

Preparation of ORANGE for alternative gas mixture studies

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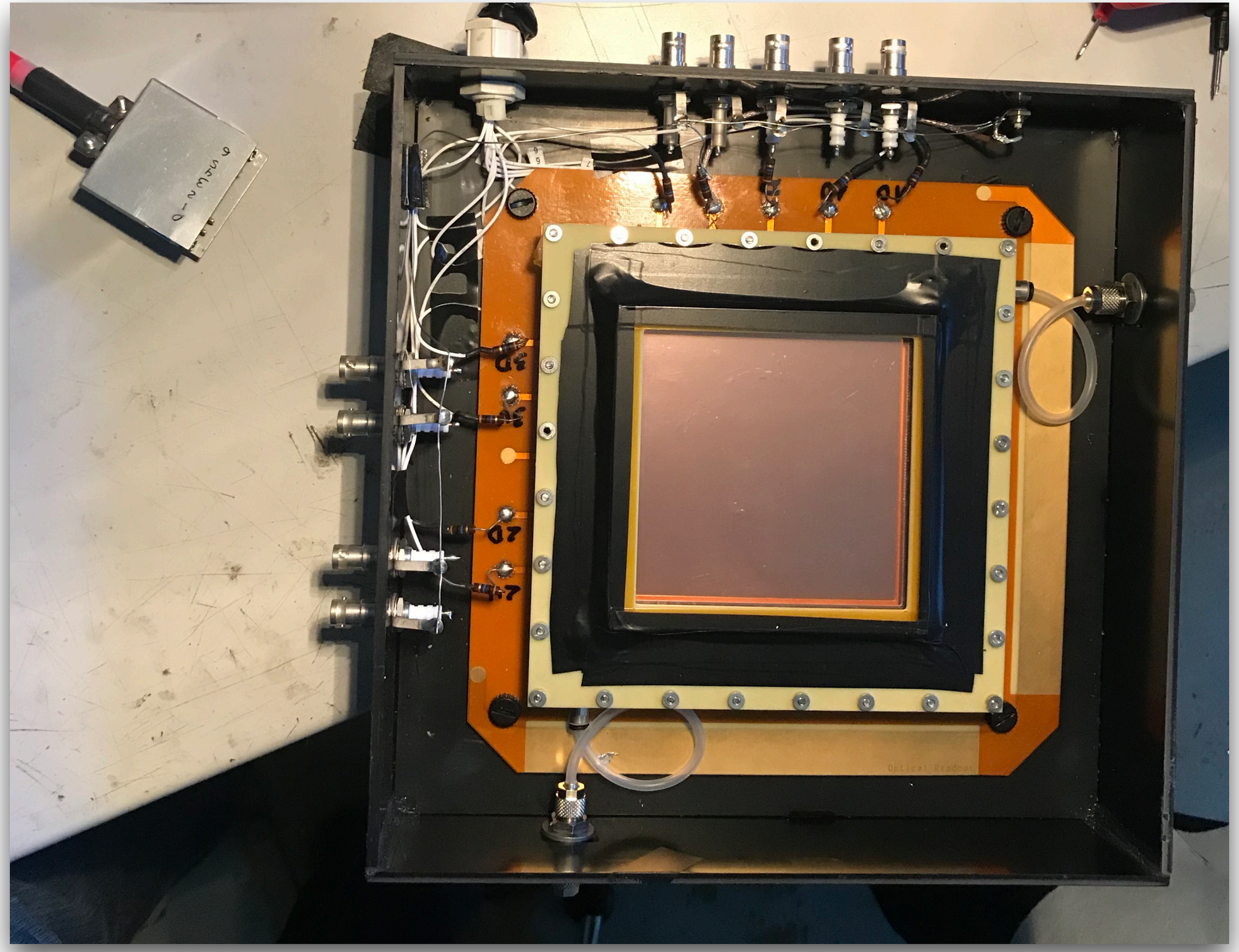
we are preparing ORANGE for tests with alternative gas mixtures and to verify the results obtained with the 4 GEM configuration

Plans:

1. improve were it is possible the detector mechanics
2. replace the camera readout with a phototube
3. place iORANGE in the x-ray bunker in our lab and start the test campaign



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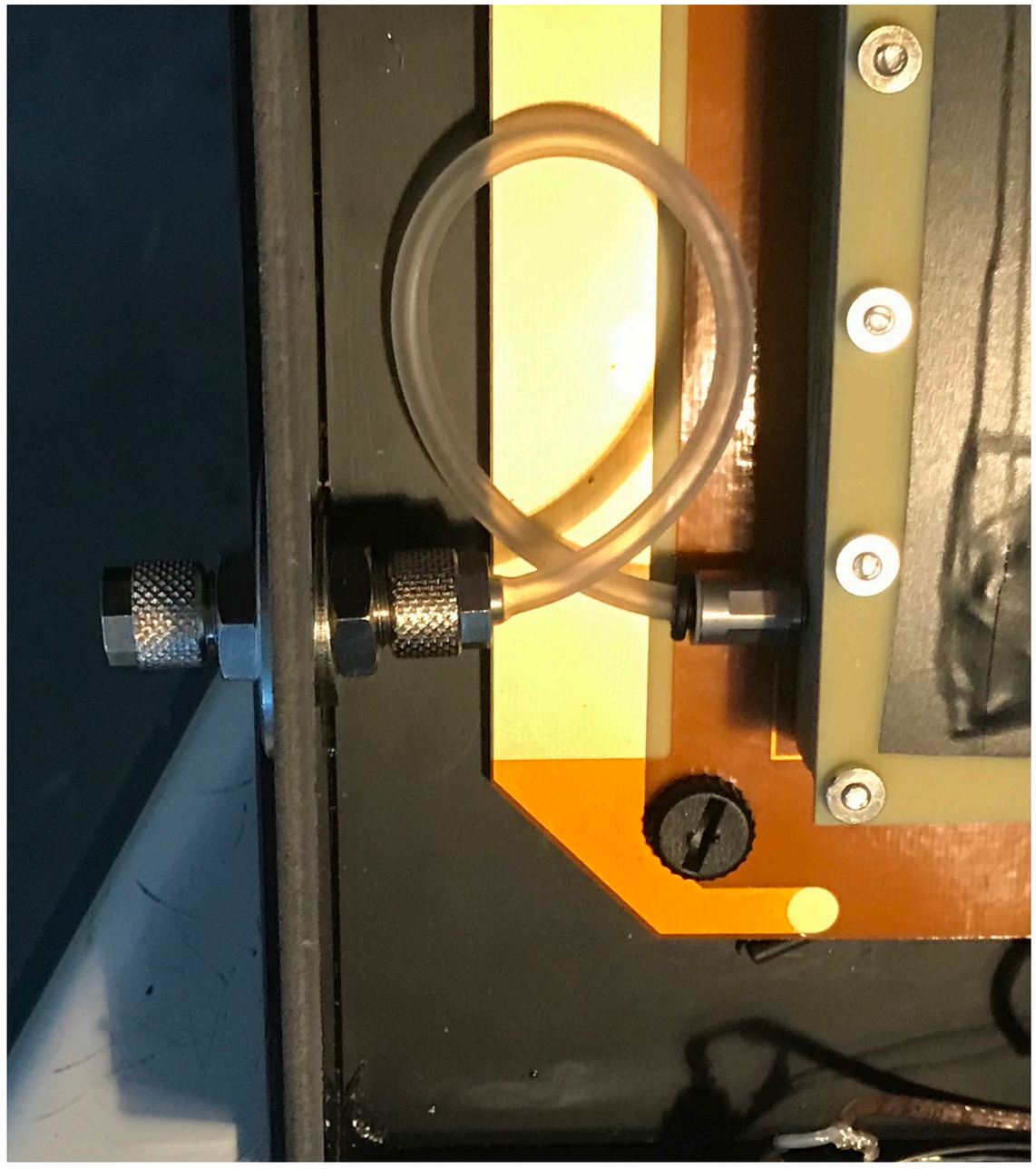
- New gas connections.
  Are more easy to handle
  and let less light to come in
  due to better shielding



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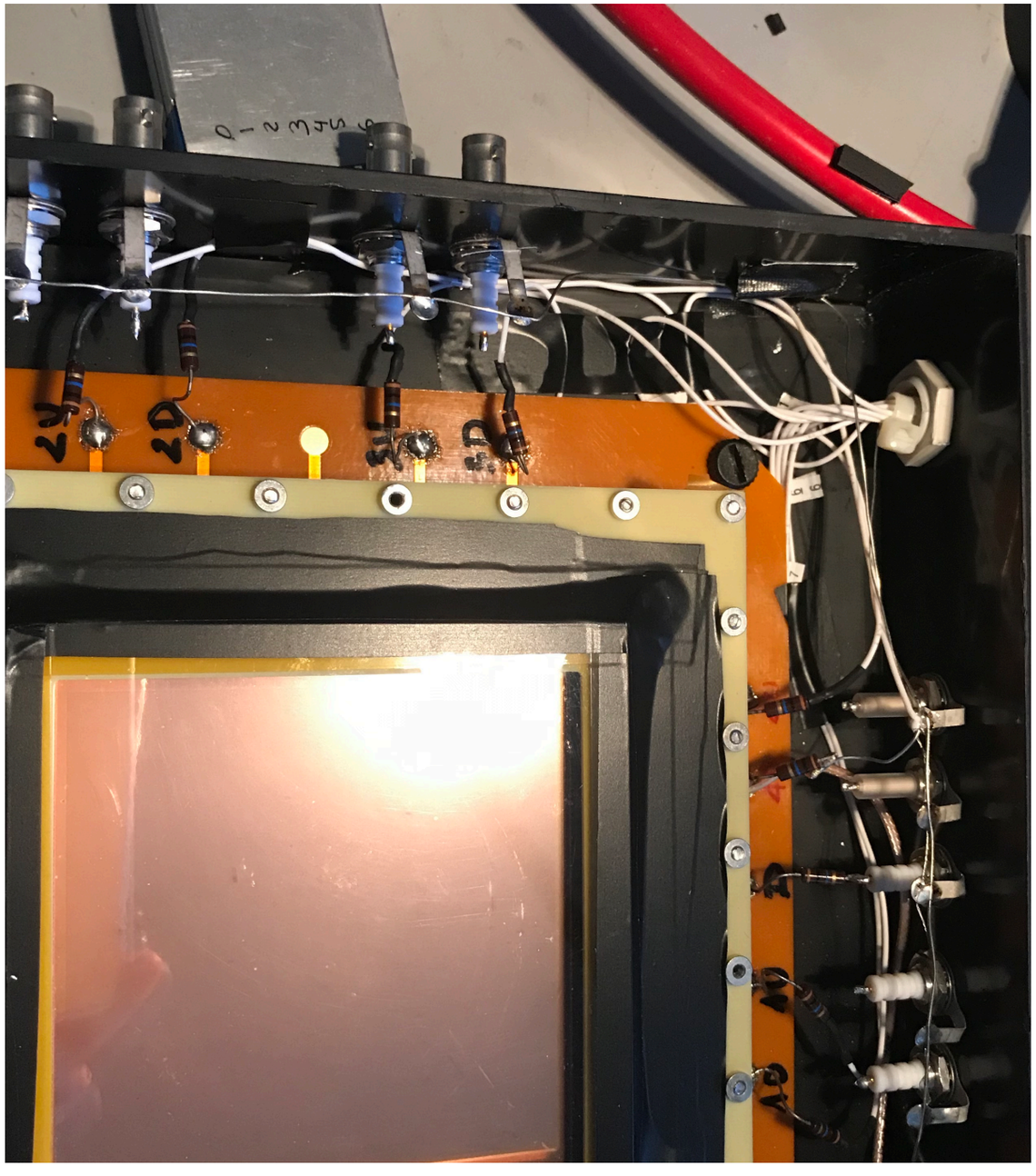
- New HV connections are necessary since in the x-ray bunker we cannot route additional cables to use the already mounted S-HV connectors. We have decided to place inside the bunker a HV-GEM module controlled remotely via a PC-TeamViewer-controlled

- We have also add a Lemo output for the signal of G4D



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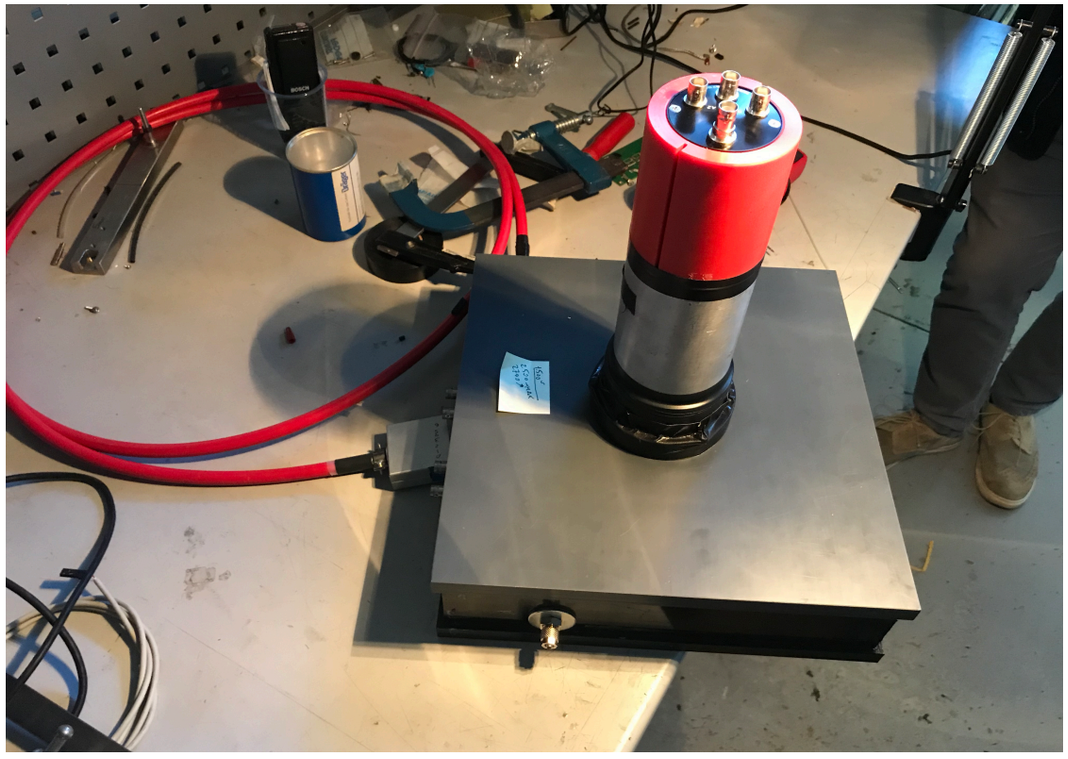

- The camera has been replaced by a phototube facing GEM 4D. to further improve the light shielding in the cover groove we have put a black foam rubber.

- At them moment we are preparing the clamps to fix the top cover.

- iORANGE should be ready to start taking data next week if…..

…If we can connected the Helium-CF4 bottle to the gas line.

Yesterday we have moved a brand new pre-mixed bottle in our gas barrack but we realised that the bottle connector is different from any other pressure reducer connectors we have newer used before

We have called Linde company and we discovered that we have to buy from them a special adaptor (60 Euros).

Since as obvious we would like first to start with the standard gas and then move to the new ideas do we have, in the meanwhile, other bottle to start playing with?

To be continued……..