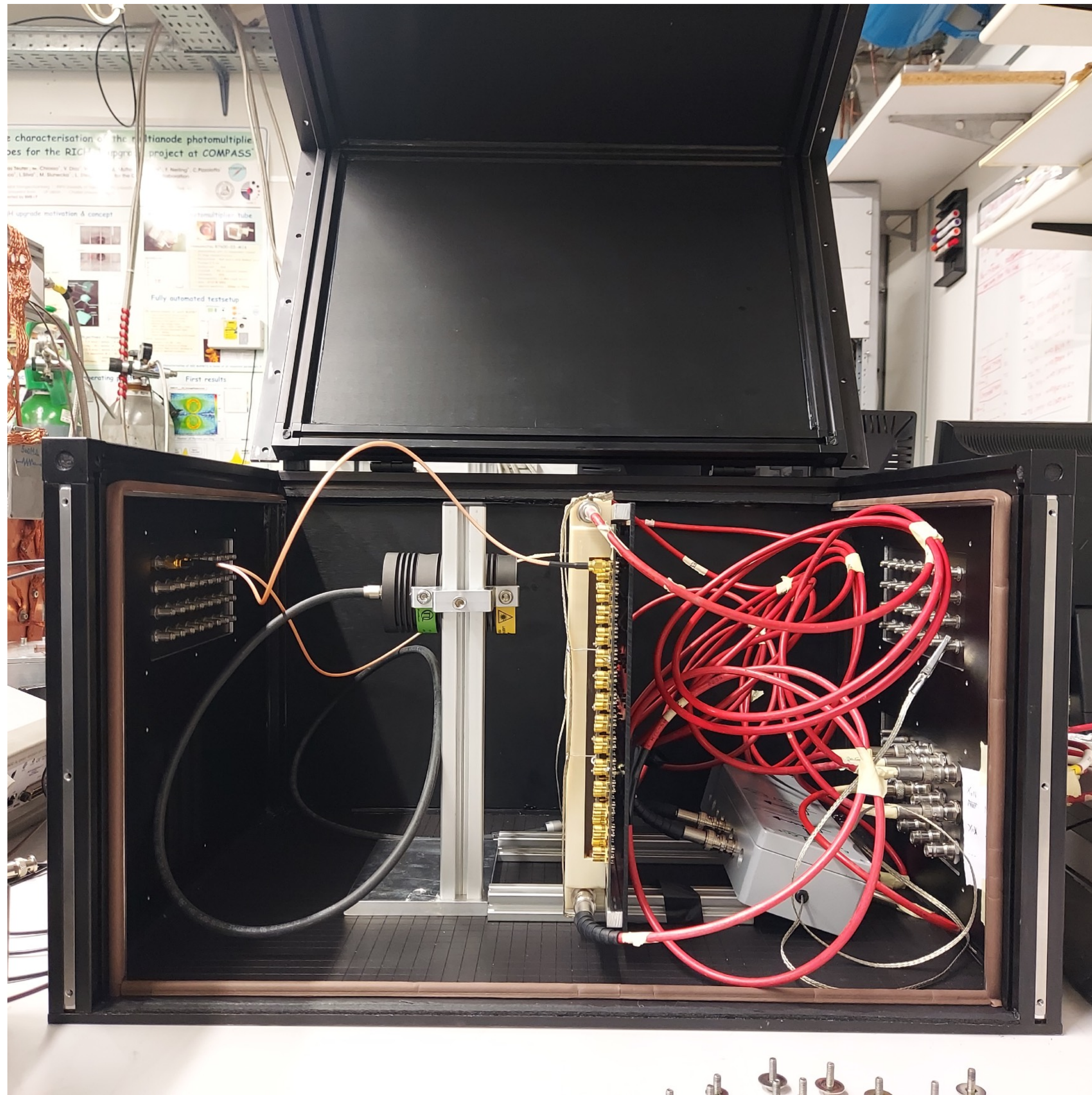


Preparatory meeting for LAPPD Beam Test in October 2022 at CERN

Deb Sankar Bhattacharya, Chandradoy Chatterjee, Silvia Dalla Torre

31 Aug 2022

Update:

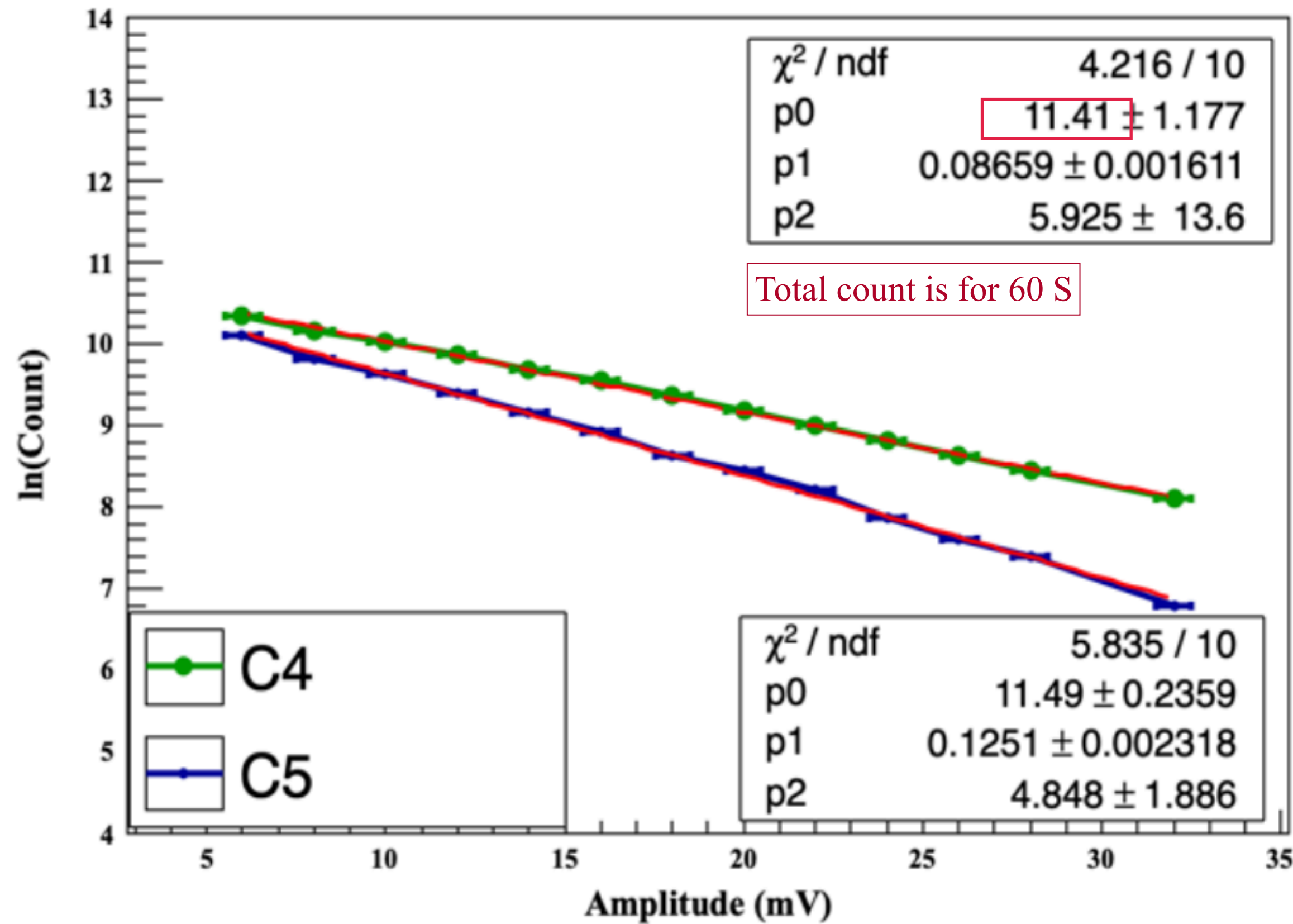


- The new darkbox still needs dark clothes to match Incom-level dark-noise rate.
- The signal shows reflection.
- There is room for improvement.

- Lens mount and filter mount are to be ready (Monday?)

A First Order Comparison

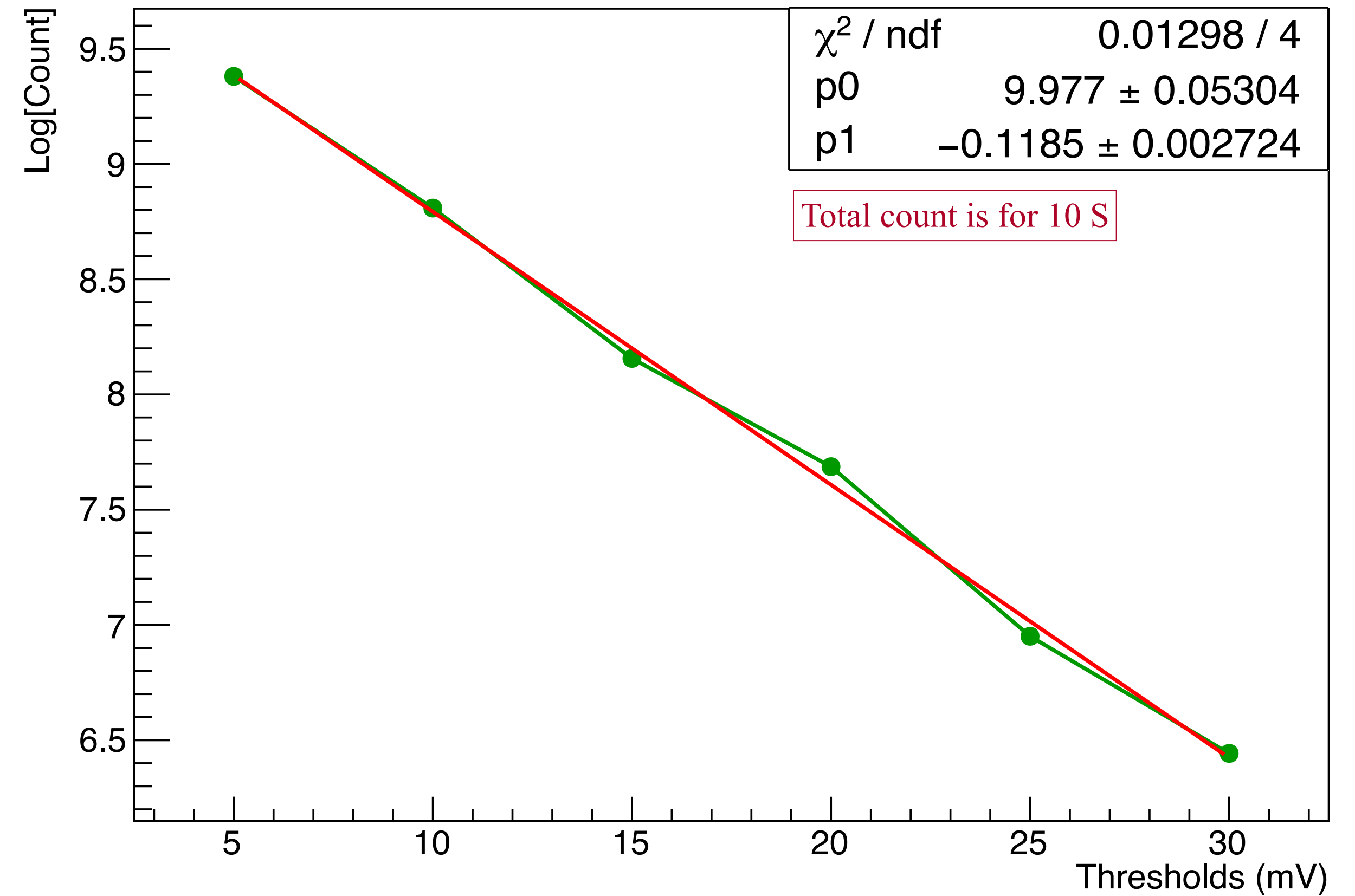
15 March 2022 || Old Dark Box, with black clothes



Extrapolated Count at 0 mV, for 60 s = 90219.42
 Extrapolated Count-Rate at 0 mV = 1503.65 Hz
 Extrapolated Count-Rate at 0 mV = 233.06 Hz/cm²

28 Aug 2022 || New Dark Box, with black clothes

noise in channel #C4

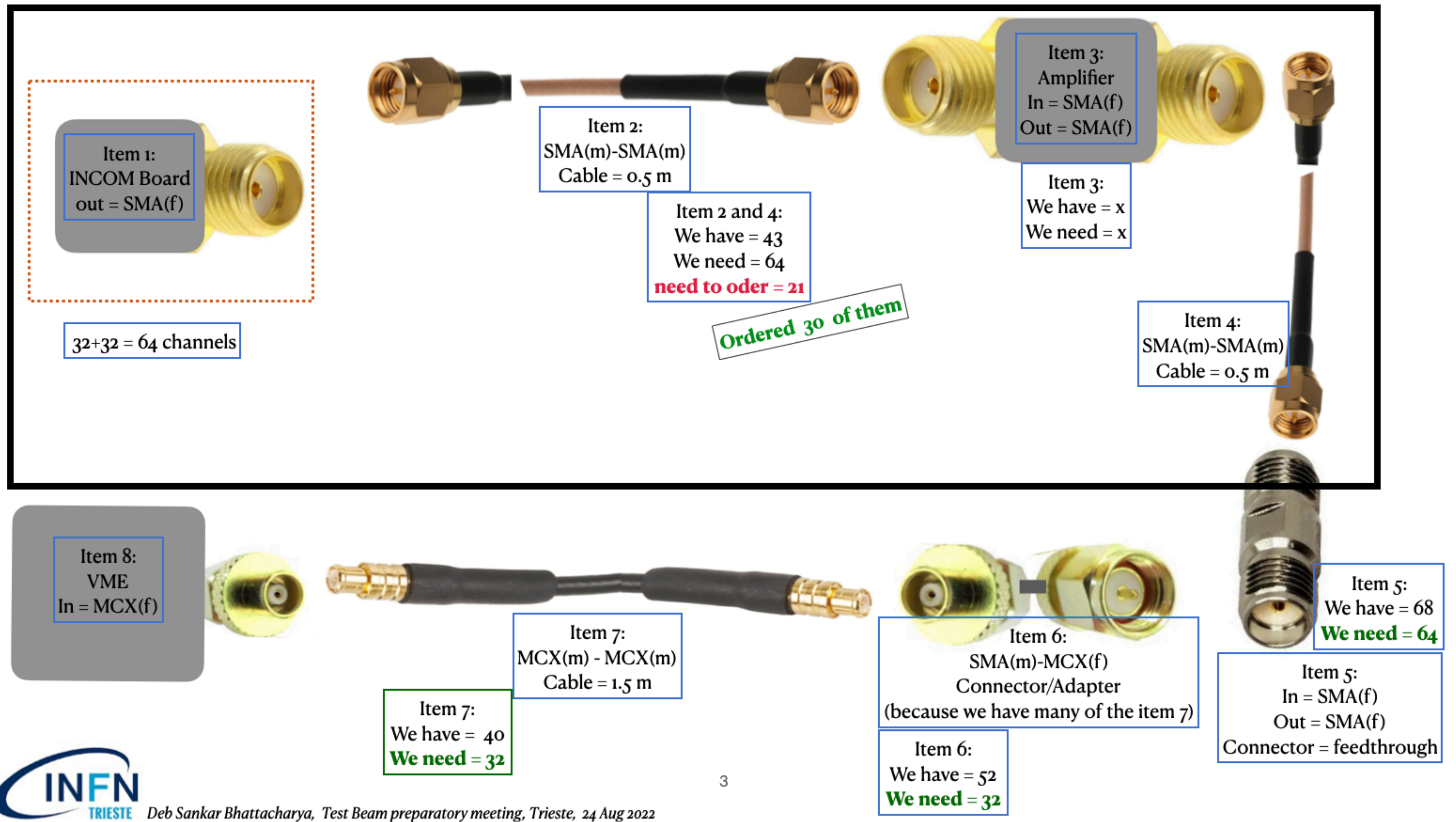


Extrapolated Count at 0 mV, for 10 s = 21,525.63
 Extrapolated Count-Rate at 0 mV = 2,152.56 Hz
 Extrapolated Count-Rate at 0 mV = 333.64 Hz/cm²

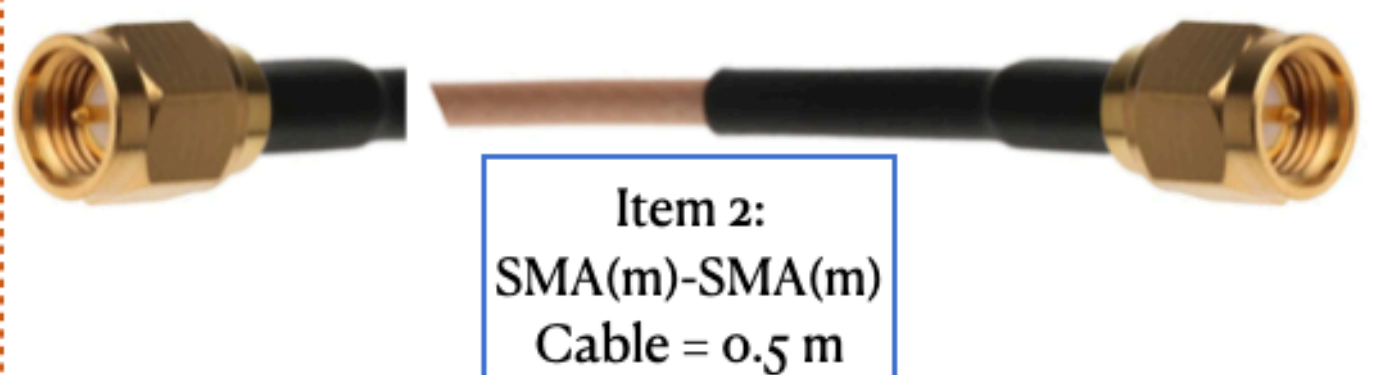
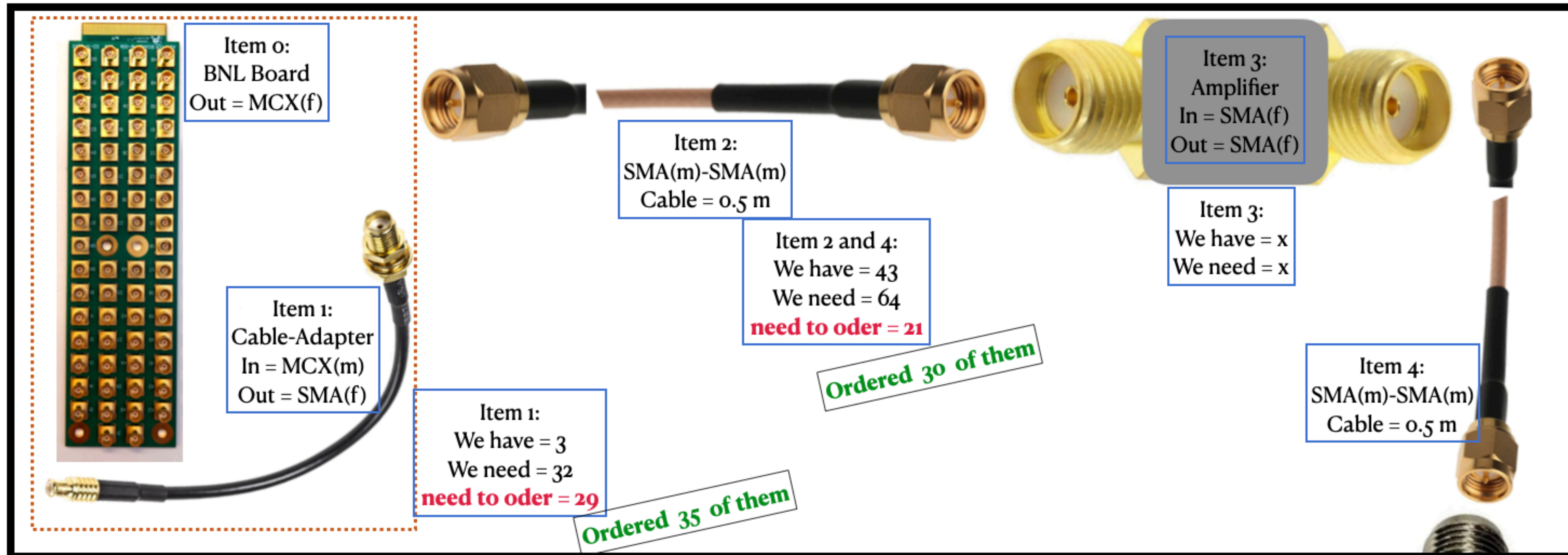
Update:

VME & Digitizer:

- We had an accident with the VME crate (VME 8004X).
- It has to be repaired by CAEN
- We managed to get an alternate VME crate: 'w-i-e-n-e-r'
- The same bridge V1718 is working in it.
- With the new VME, I could establish connection to the digitizer (V1742)
- We are now starting the voltage and time calibration.

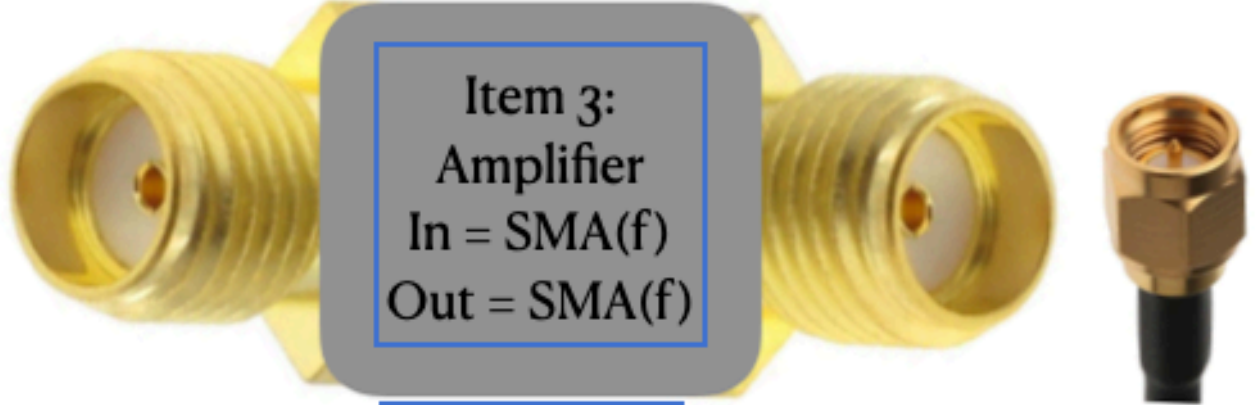


The SMA(m) - SMA(m) cables have arrived at CERN. So we are ready.

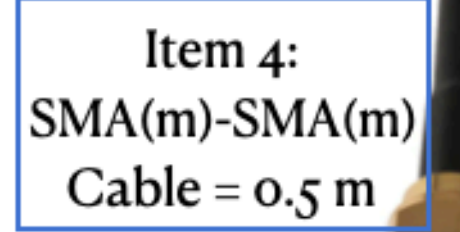


Item 2 and 4:
We have = 43
We need = 64
need to order = 21

Ordered 30 of them

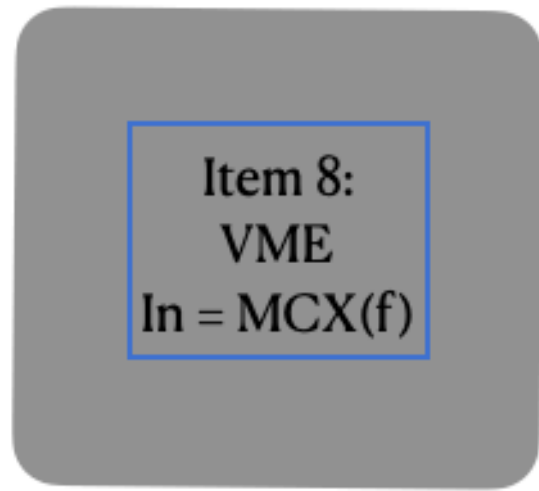


Item 3:
We have = x
We need = x

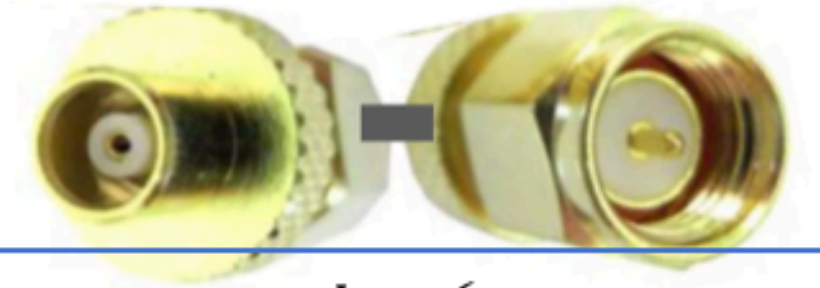


Item 1:
We have = 3
We need = 32
need to order = 29

Ordered 35 of them



Item 7:
We have = 40
We need = 32



Item 6:
We have = 52
We need = 32



Item 5:
We have = 68
We need = 64



Deb Sankar Bhattacharya, Test Beam preparatory meeting, Trieste, 24 Aug 2022

These cables are yet to arrive at CERN. So we are positive.



What to bring to CERN?

HV units:

- We will bring 2 HV modules (8 channels): CAEN N1470
- Do we need to bring NIM mini-crate?
- How long HV cables?

Electronic modules :

- Discriminator: CAEN N417
- Counter-Timer: N145
- FIFO: LeCroy 688AL
- Timer: CAEN TU277
- Coincidence: LeCroy 465

What to bring to CERN?

DAQ computer:

- **DELL XPS with USB C adapter**
- **Having a windows computer will be better (we will probably switch to it)**

Contributions:

Genova

- **Amplifiers**
- **Beam Monitor**

BNL

- **Novel readout board**

Person Power:

- **Trieste**

Deb Sankar Bhattacharya, Chandradoy Chatterjee, Silvia Dalla Torre, Mauro Gregori

- **Genova**

Mikhail Osipenko

- **BLN**

Alexander Kiselev

More news:

- **Mikhail will spend the next week with us in Trieste**
- **What about the LAPPD workshop?**

What did I miss ?

Thank you!