MINERvA 2x2 re-installation progress

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Cables for MINERvA 2x2

- We are working in MINOS Hall, on the surface.
- We are working with three different type of cables.
  - Power and readout cables
  - Light Injection (LI) fibers
  - Optical fibers
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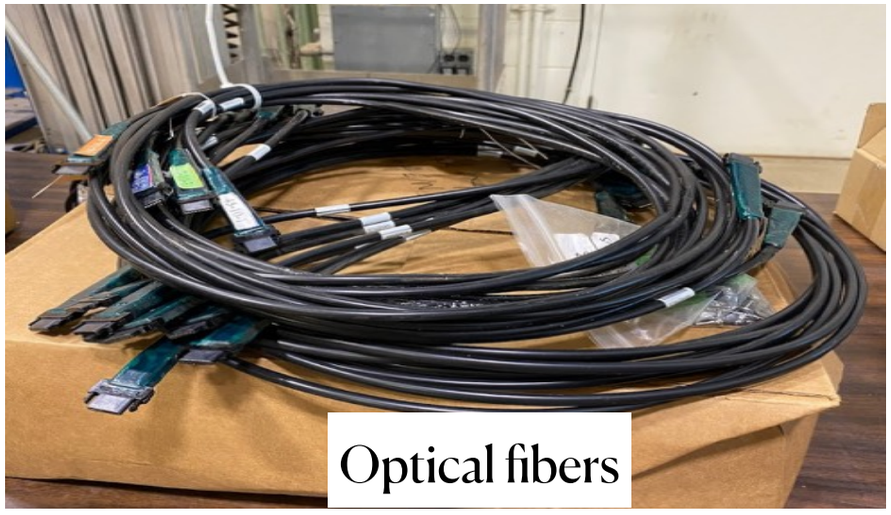
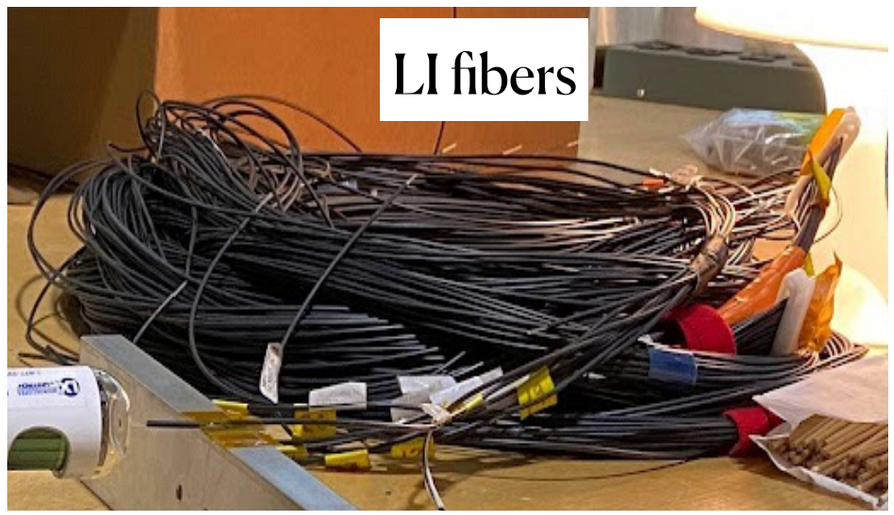

Optical fibers


LI fibers

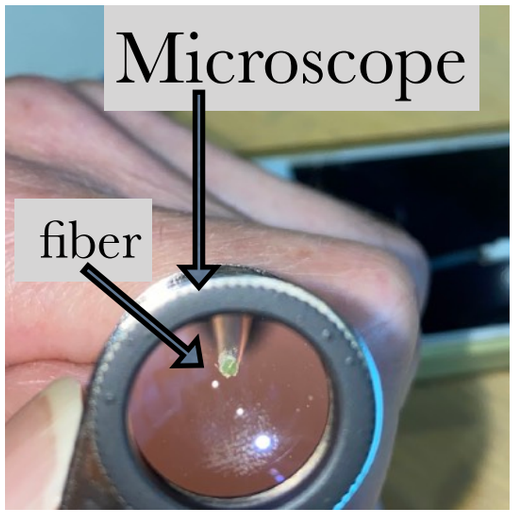
Electronic and Optical cables for MINERvA 2x2

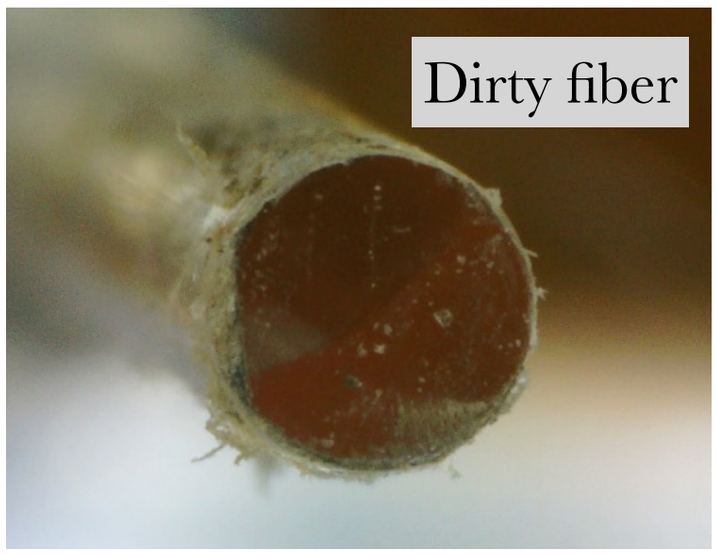
- Electronic cables:
  - We measured the lengths of the electronic cables for different MS.
  - Compare lengths with the lengths listed in Linda's file.
  - We have necessary means for printing the labels for the cables.

- Optical cables:
  - We are working with MS 27 W(HCAL) cables, they look dirty.
  - We will get the other cables from lab 8.
  - Need to check, if the cables are dirty at the connectors and clean them.

LI fibers for MINERvA 2x2

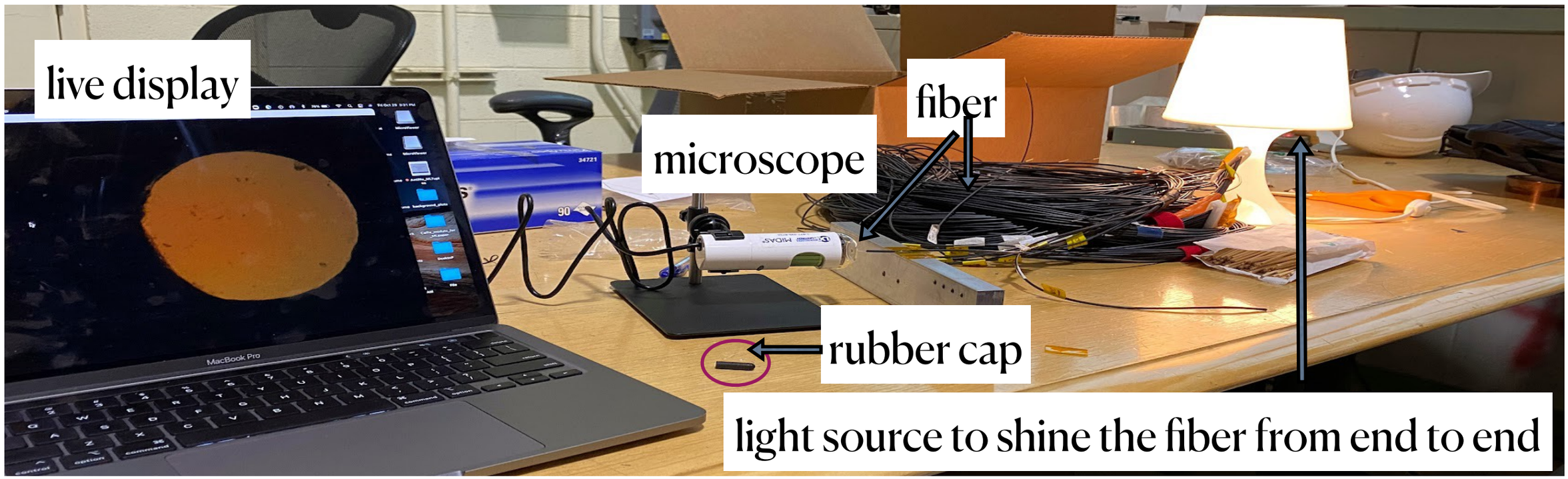
- We checked different fibers for the dirt and/or any disfigurement at the cross section.
- We used hand-held 20x microscope for checking the fiber.
- Magnification was not good enough
- We are using a different microscope with magnification range from 10x to 200x



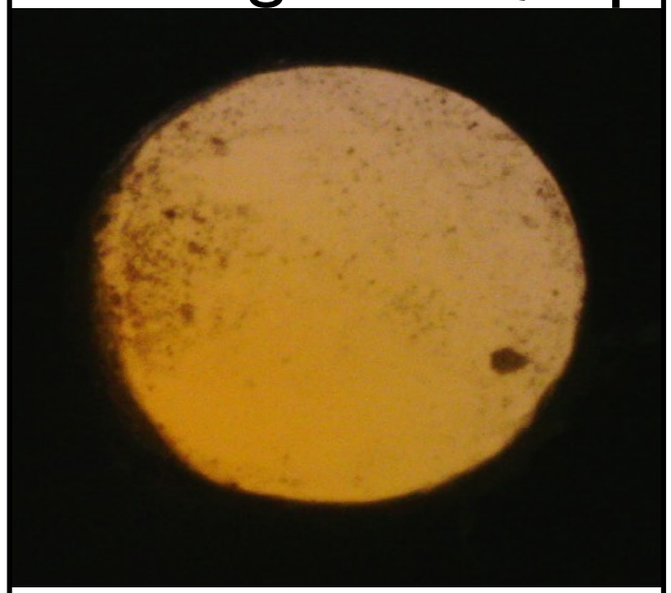


LI fibers for MINERvA 2x2

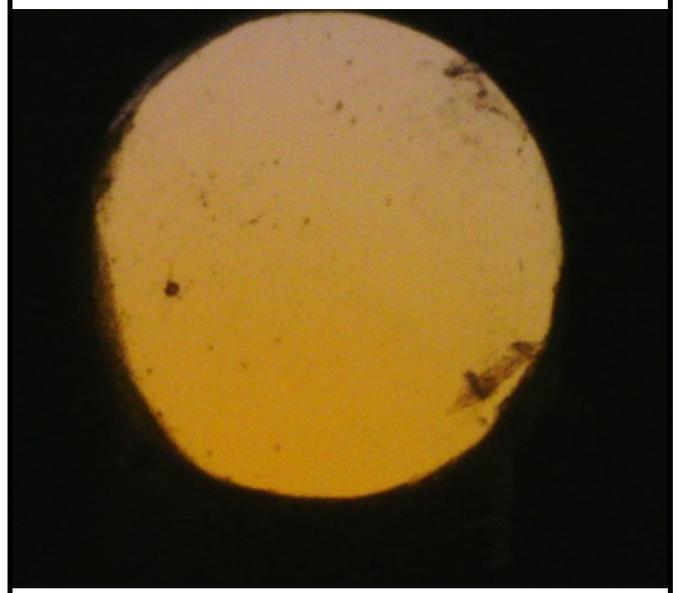
- It was hard to hold the fiber with hands because of the high magnification
- We used this make shift setup for the process
- We cleaned the fiber using Q-tips without any alcohol
- Plan is to clean the fibers with the special fiber cleaning wipes and spray and put the rubber caps on them secured with a tape till we need to put them on the detector.



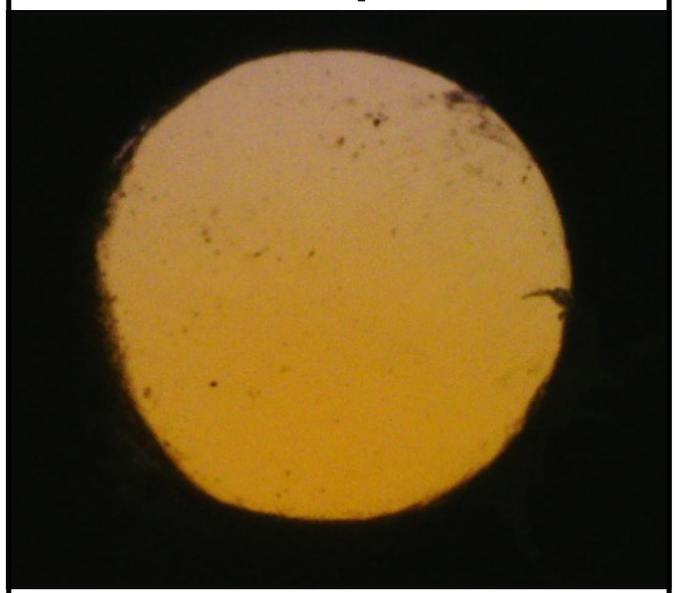
Dirty fiber before cleaning with Q-tip



fiber after cleaning with Q-tip, before putting the rubber cap



fiber after putting the rubber cap



We were checking for the residue after taking the rubber cap off — we found none.

Next step is to see if we need to clean the fibers with the cleaning agents before sealing them

Next steps...

- We have all the hardware ready for the assembly of MS 11.
- Need to clean the cables, they are at the MINOS Hall.
  - We have appropriate stuff to clean the R&D before taking them underground
- PMTs and FEBs are still at lab 8. We will get them right before the assembly starts
- We have FESBs with us at the MINOS Hall but they are missing the thermal pads: we need to order them.