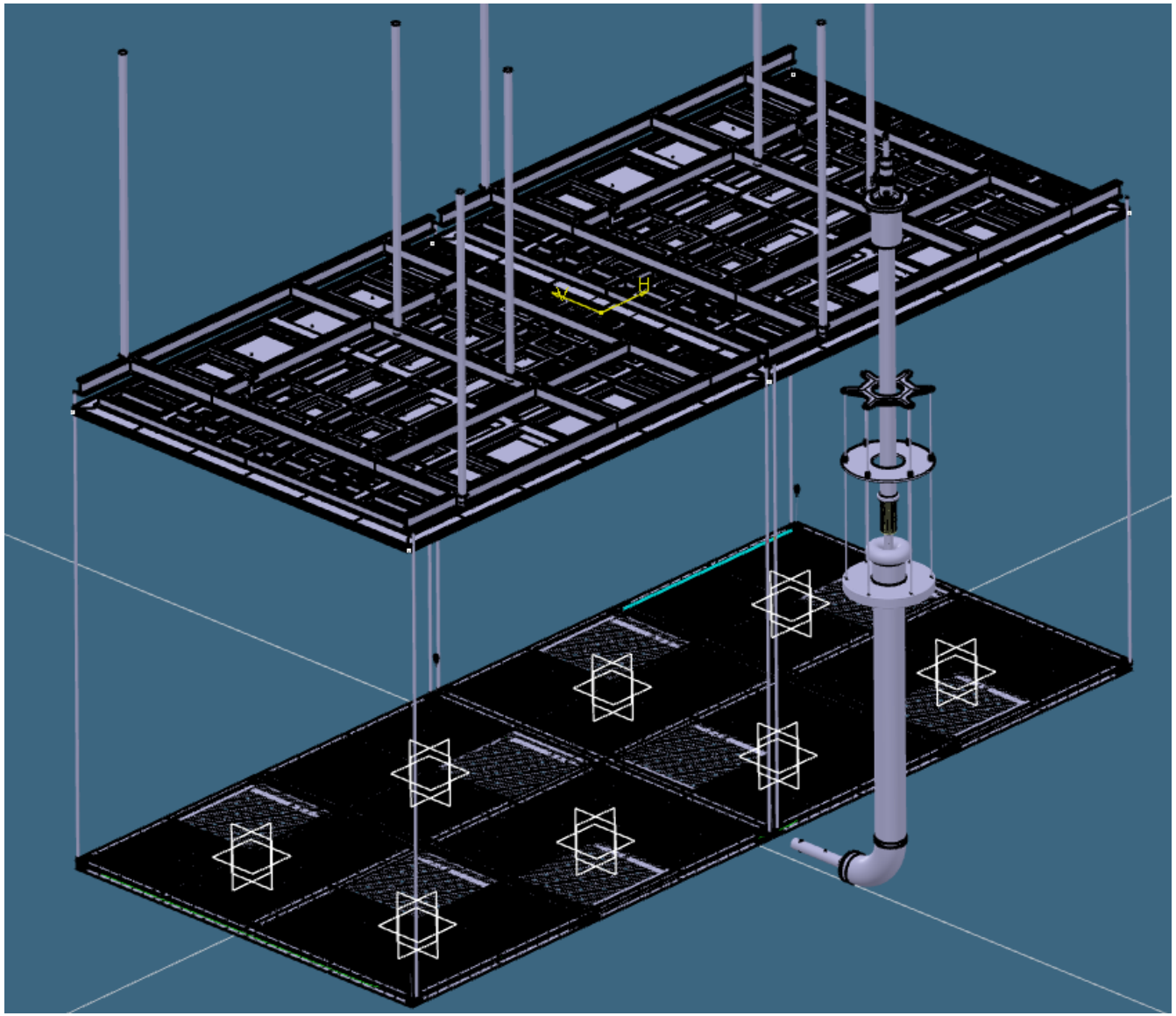
Arapuca position and fiber position for Module 0 !!

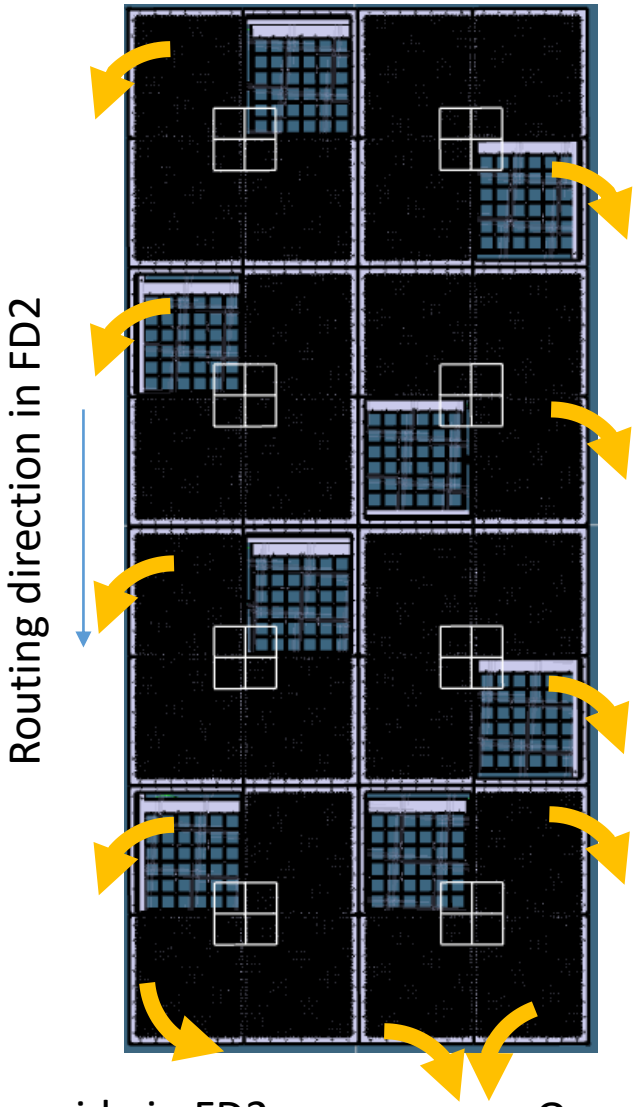
Let’s focus now on the Module 0 details based on FD2 concepts…
Lots of open questions: the main question is « Who is in charge of the routing after the cathode ? »

NP02-module 0 arrangment

The CAD of the frame is ready
Detailed drawings under realization



Designed CAD arrangement of the cathodes



Arapuca position now is fixed
Frames under order

Xar output direction
Module 0 = FD2 solution

Field cage side in FD2

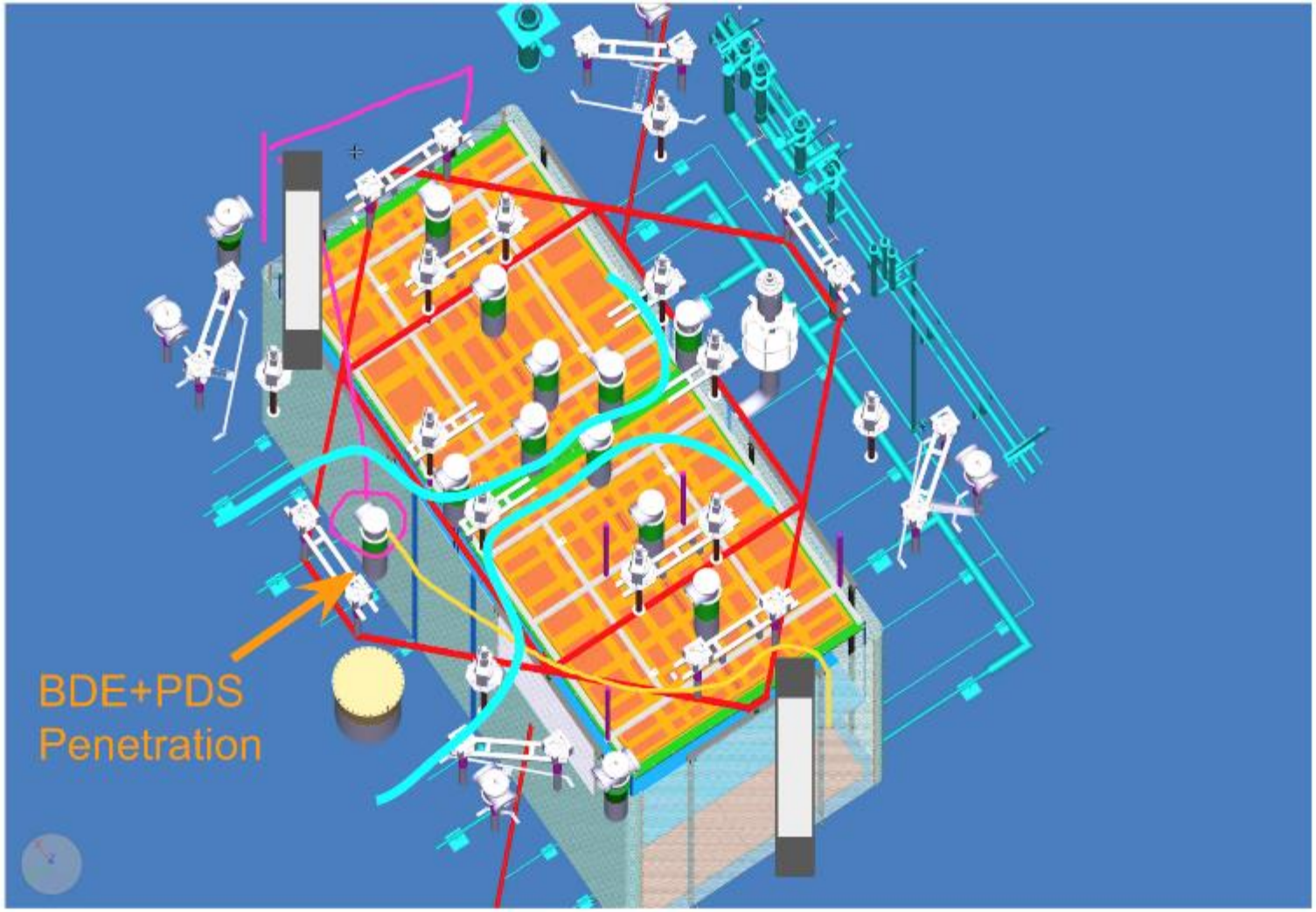
One global output in FD2: is it still true ? Up or down ?

Ryan proposal n°1

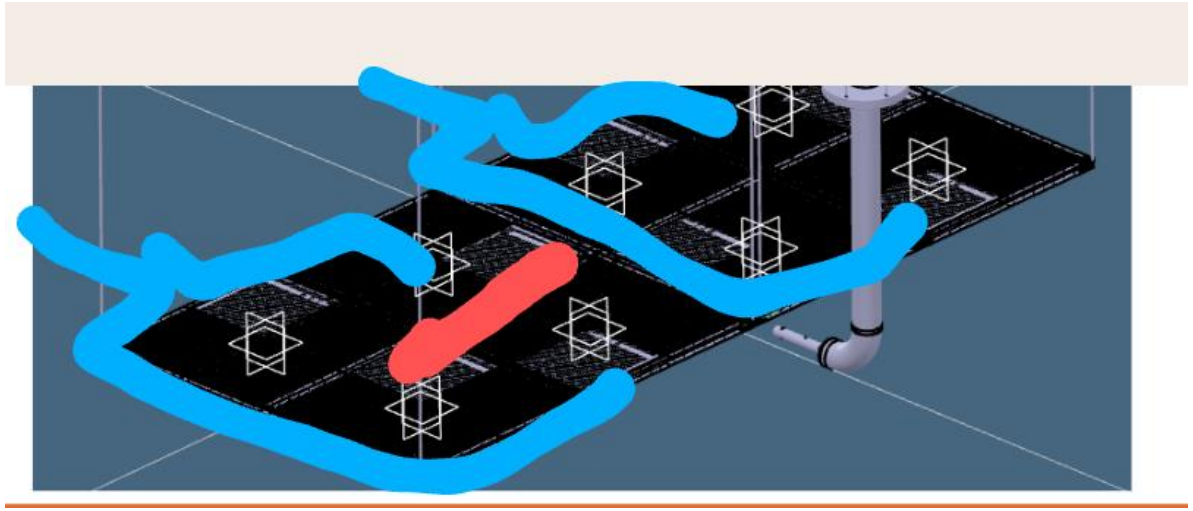
Problem: the 2 cathodes must be independent in Module-0

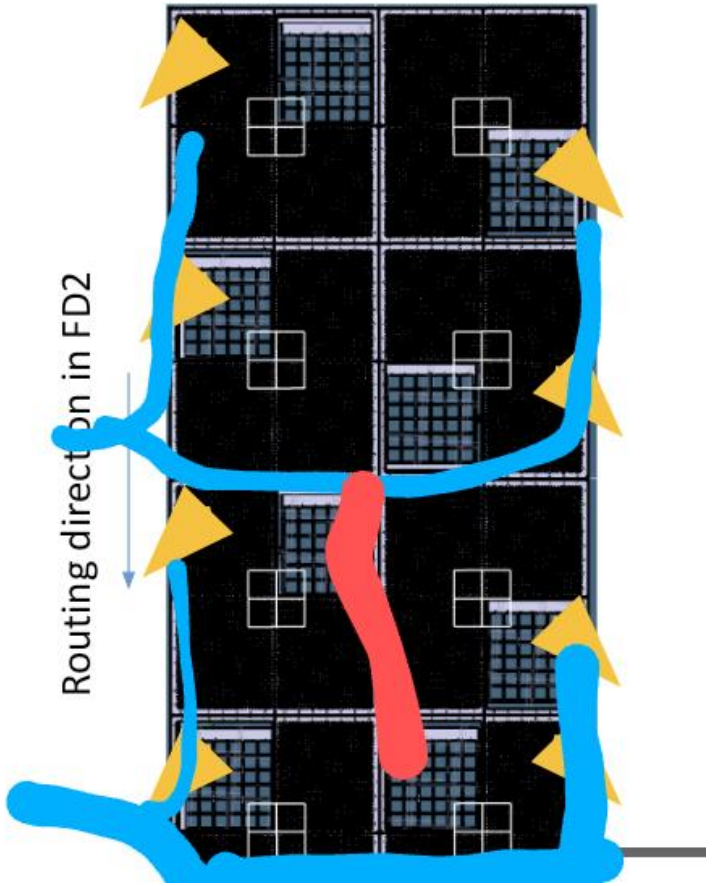
=>The fibers must find a new routing

Problem is the mirror symmetry



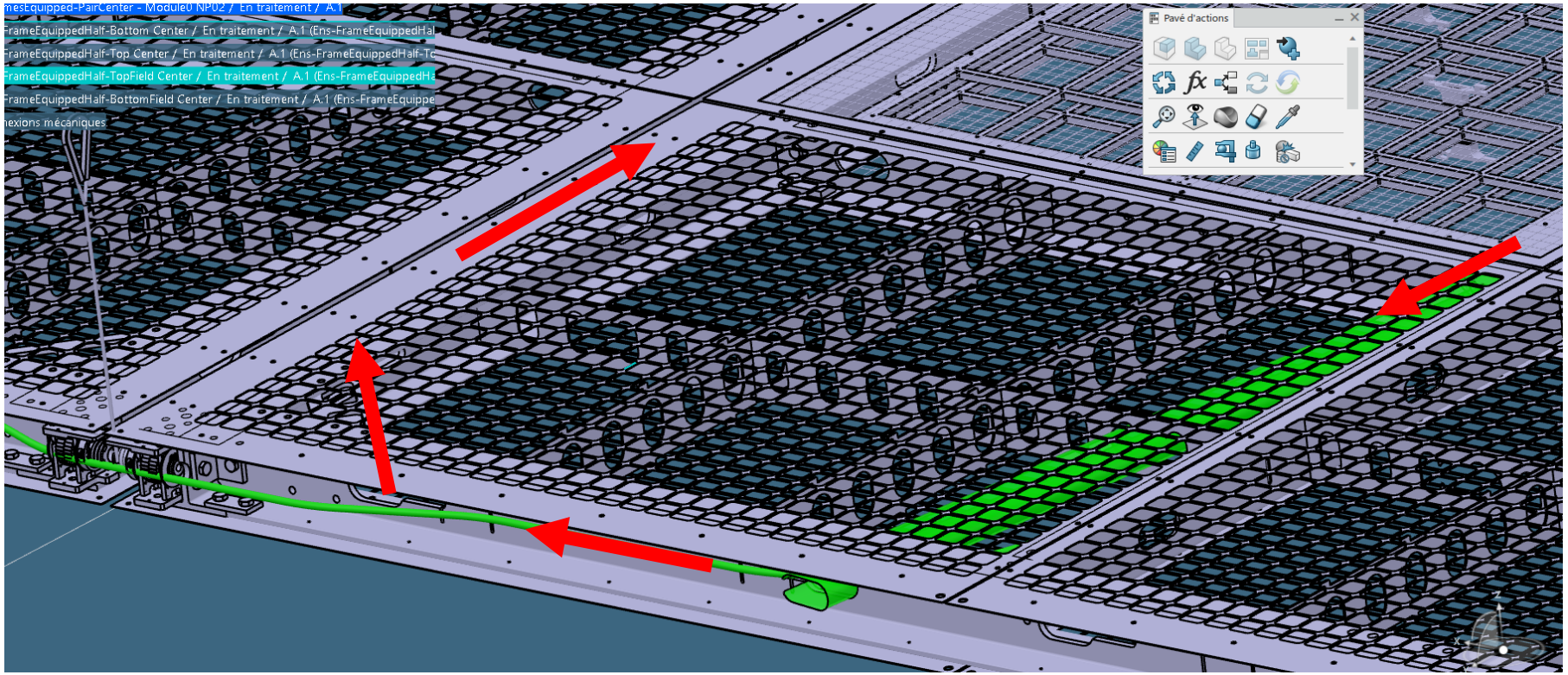
Ryan proposal n°2 18082022



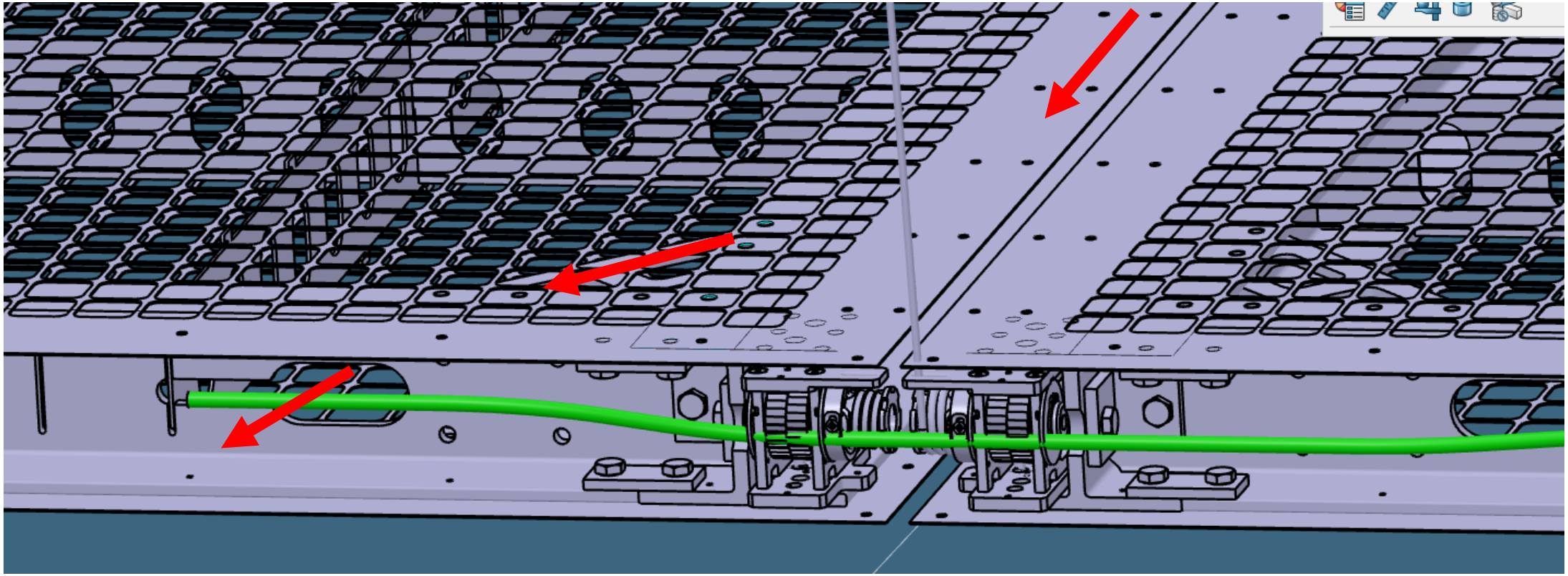


Respect of the module output directions and single cathode behavior
Need 2 outputs !! Up or down ?

Path to get out from module



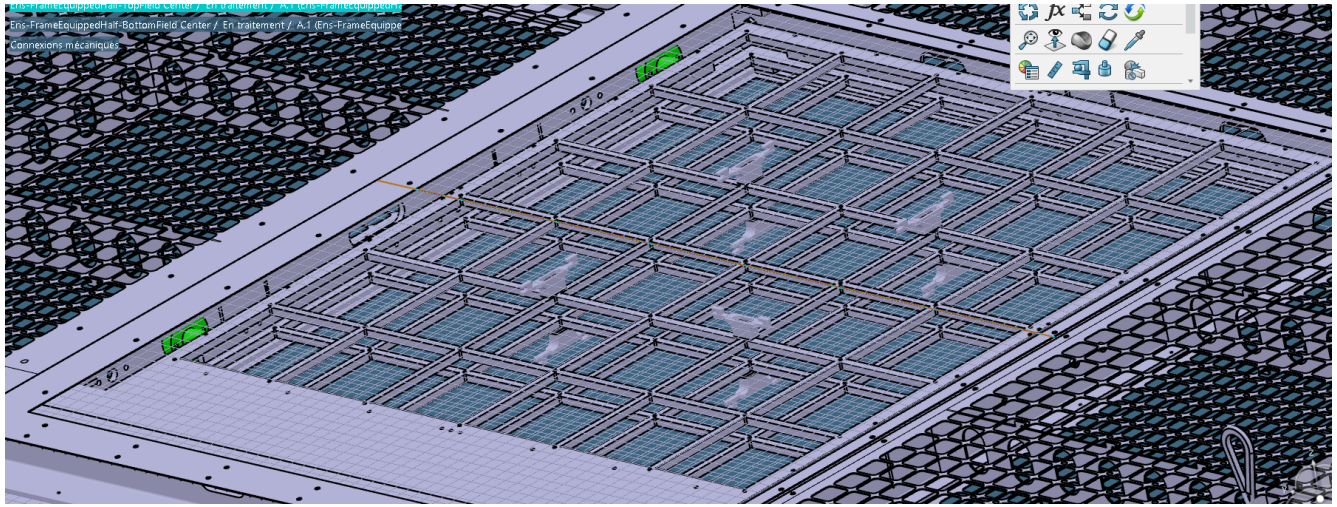
Path to get out of the cathode towards field cage

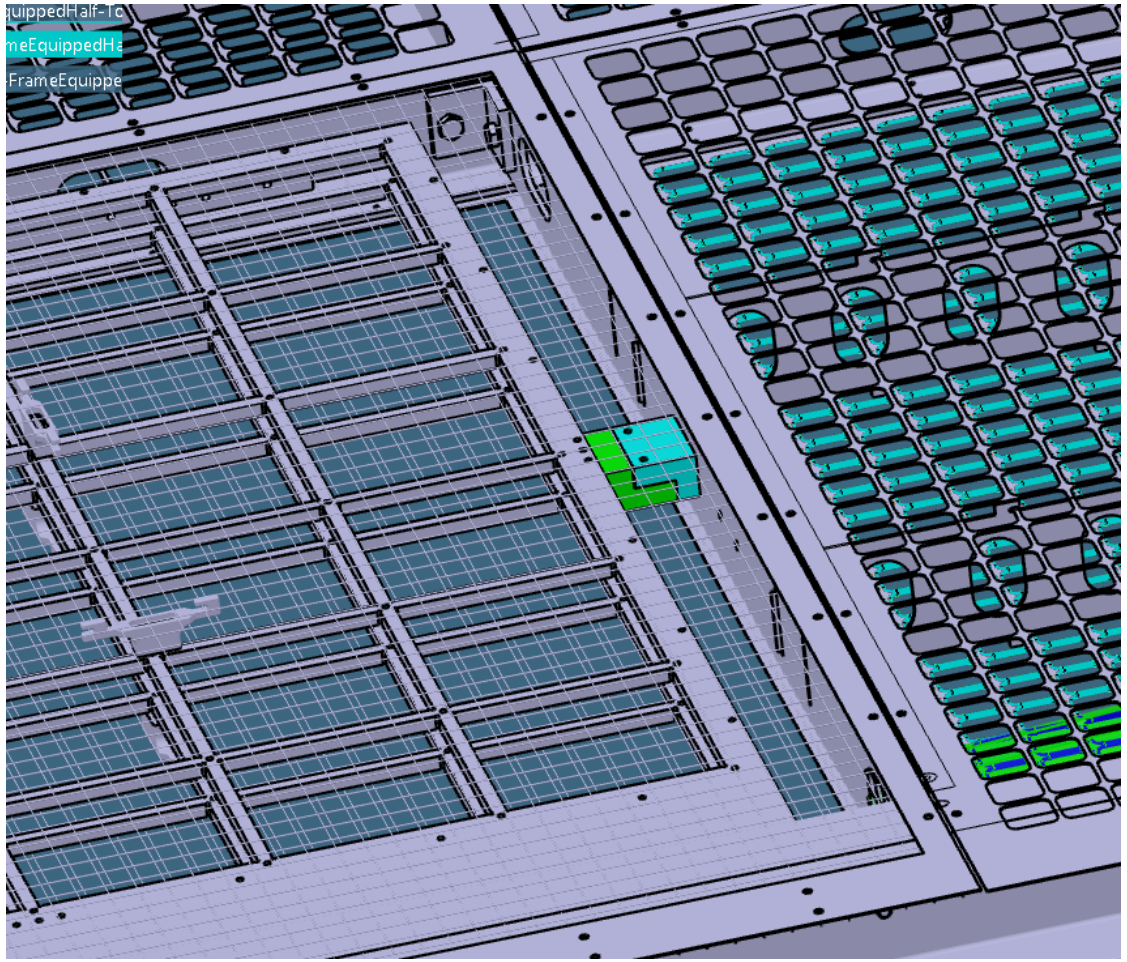


After the cathod, what is the status ? through field cage, up or down ?

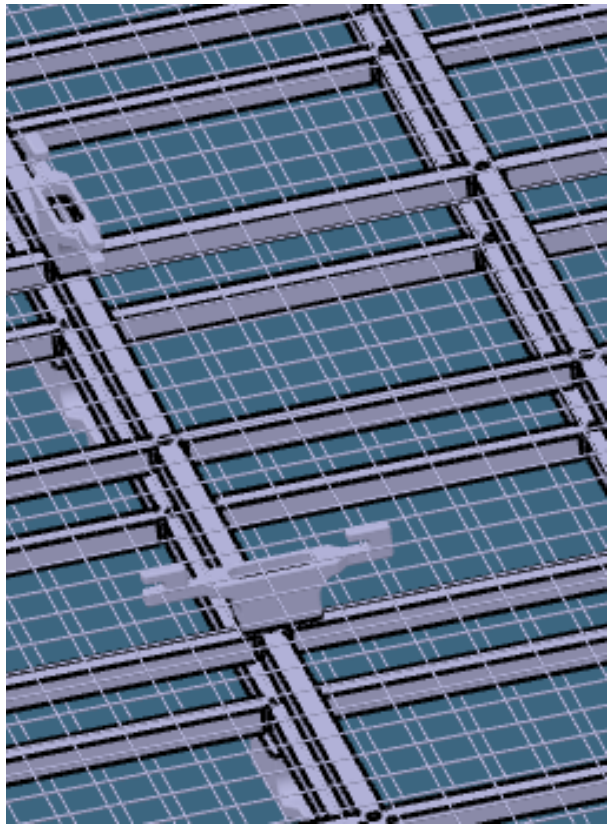
Xar supports points

Volume and principle defined : the objective is to mount the module from the bottom side
Detailed drawing still to create (no time to check with Paul Debbins)





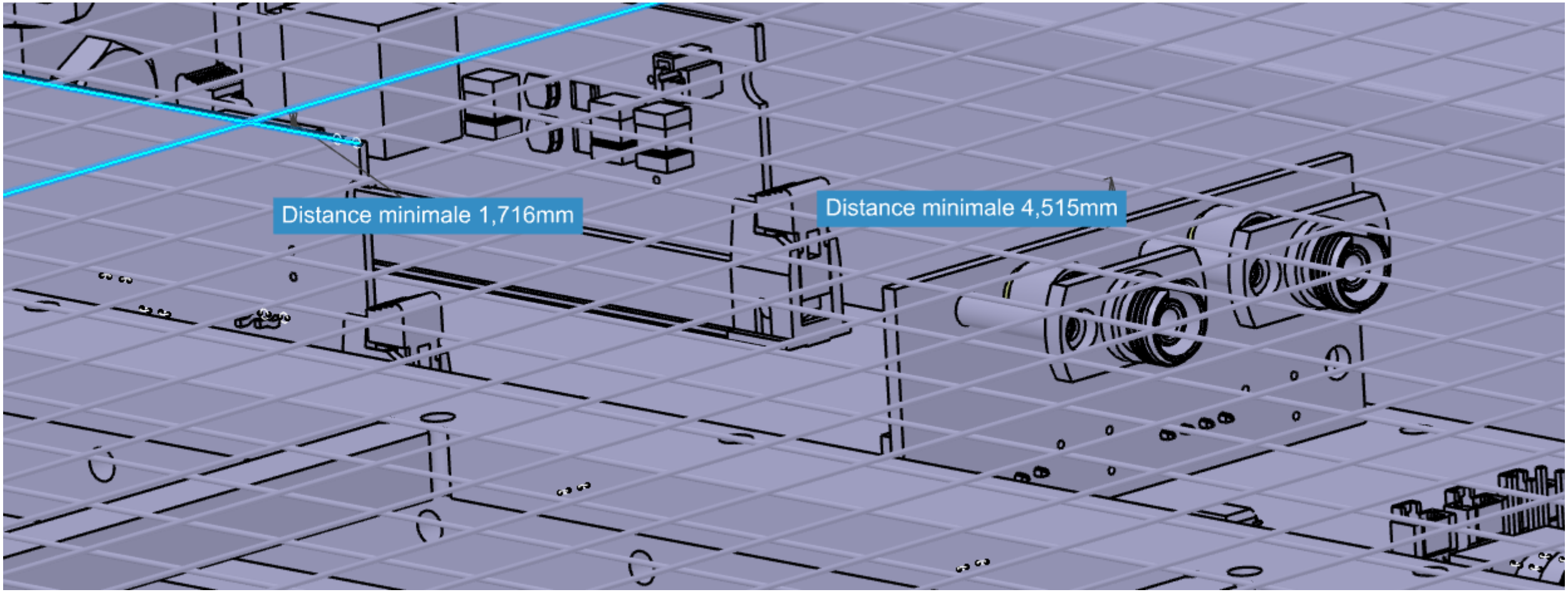
Mesh finger



Status ? (from Paul Debbins ?)

Critical distance between mesh and boards

Did you change something about that ?



Glue curing time

Araldit 2011 = 7h hardening and total curing within 5 days.
Can be speed up with heating coat 60-80°

⇒ Reduce the amount of glue only by glueing connection areas
⇒ Heat the connection areas during 3 hours to reduce vaporing time.

Balun box

No news from Hucheng Chen about Balun box !!

I need datas to complete the design