

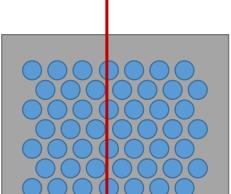




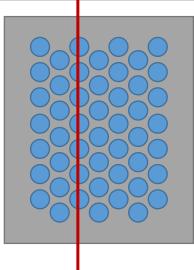
QFib Test Beam 24

O. POTOK 12 April 2024 We prepare directional fiber array according to the beam path with the same optical contact and same condition just rotating the array we can get 4 or 7 fiber in line.

Main purpose of this study is to obtain one fiber response.

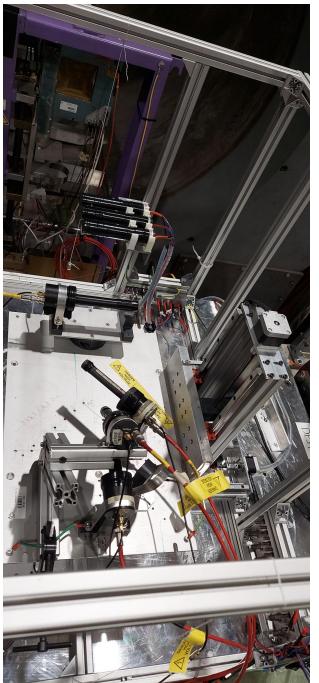


Beam





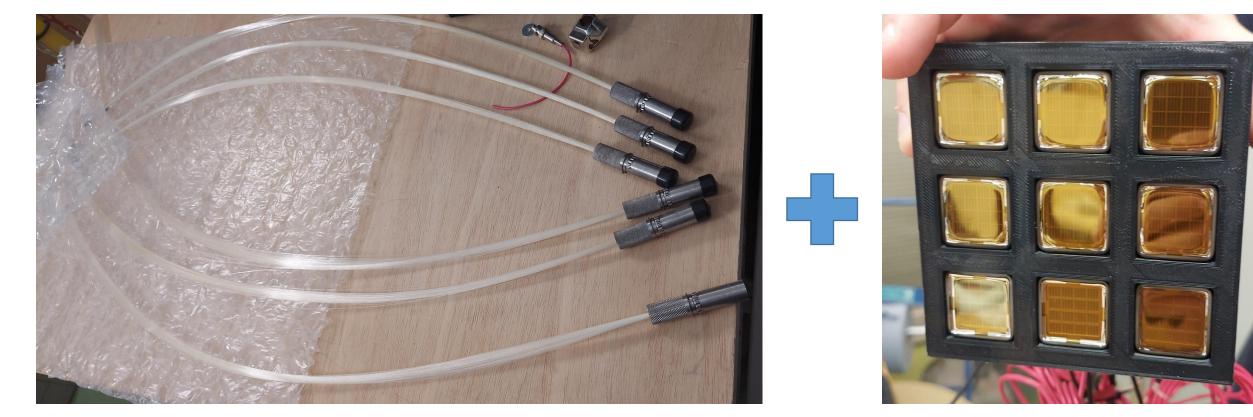


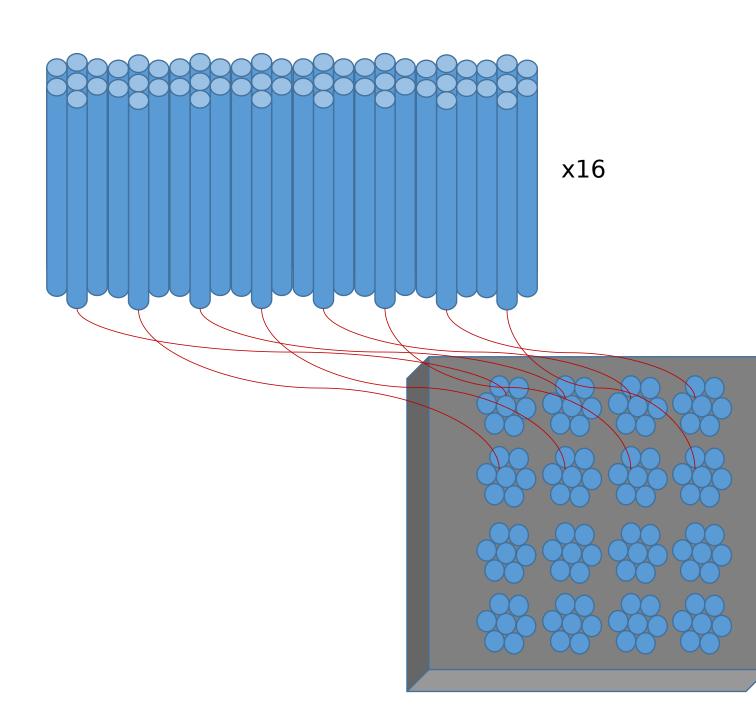


Main Goal -> Preshower test with absorber and quartz fibers.

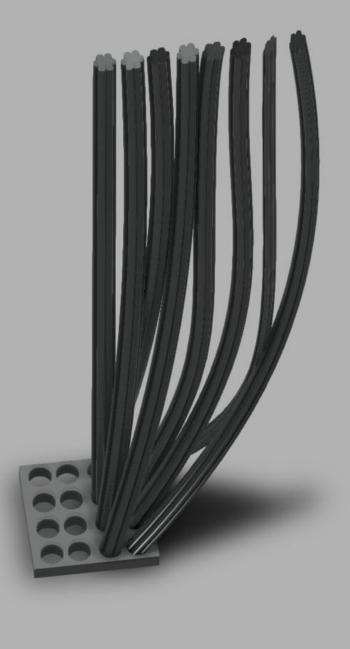
PPP fiber bunldes coupling with Hamamatsu R5900 PMT array for this purpose.

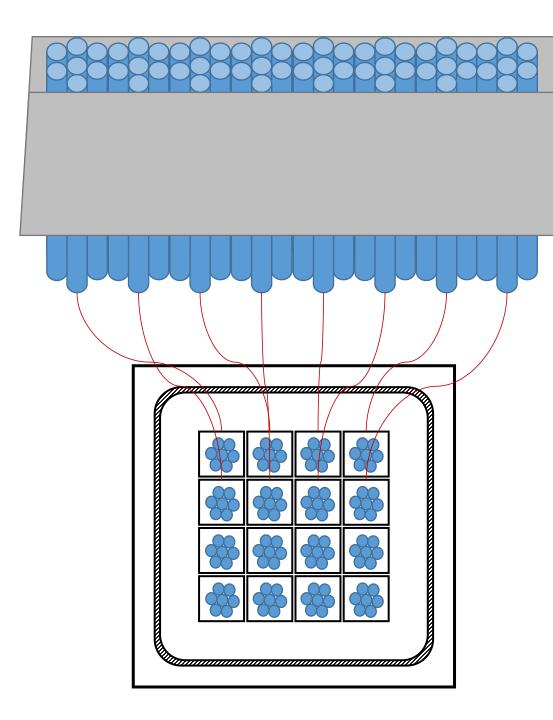


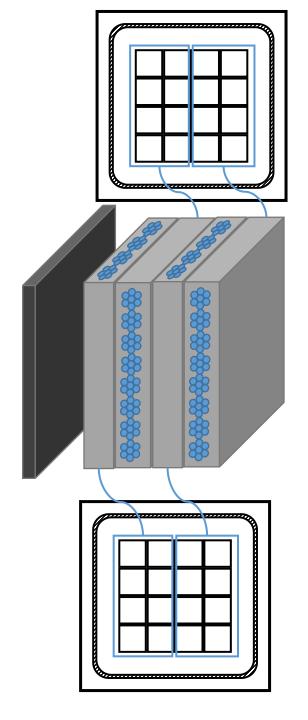




Thanks to Selbi and Yasin







Fibers

If fiber has 1000u diameter with buffer we should choose 7 fiber Otherwise, we can use 19 fiber bundle according to the size of the fiber We would like to also try fibers without buffer

- FSHA600630800 HF
 800*3=2400
 630*3=1890
 630*5=4000
 630*5=3150
 630*7=5600
 630*7=4410
- JTFLH600630950

950*3=2850630*3=1890950*5=4750630*5=3150950*7=6650630*7=4410

FSU330350400
 400*3=1200
 400*5=2000
 400*7=2800



