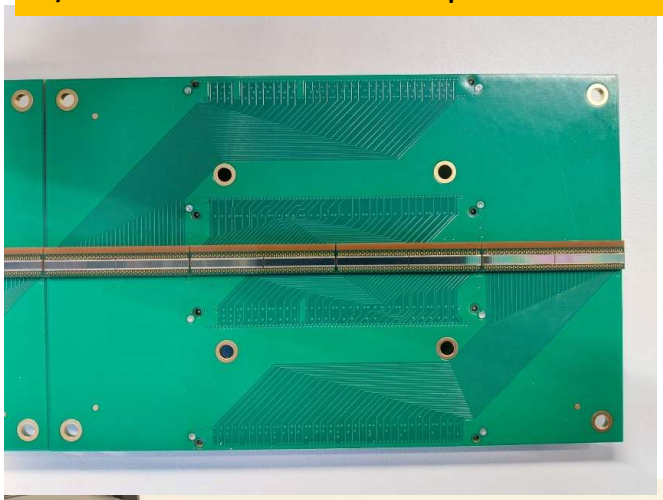
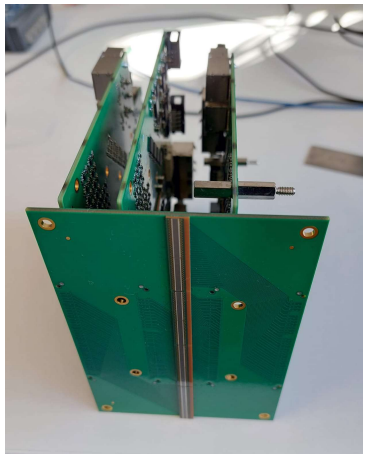
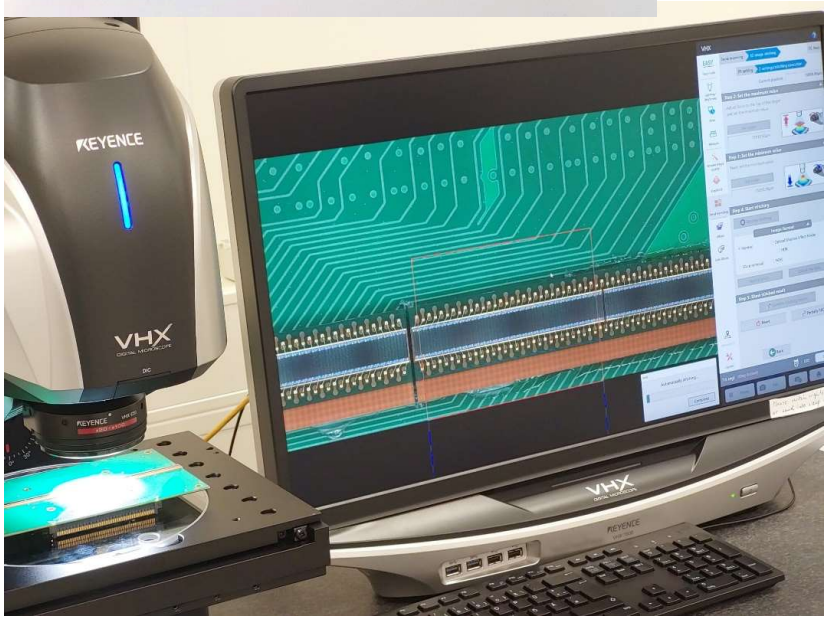
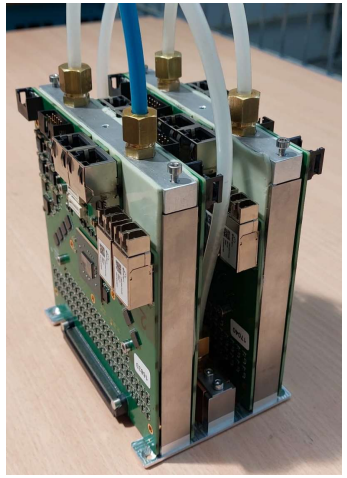
4) short status report on SciFi developments

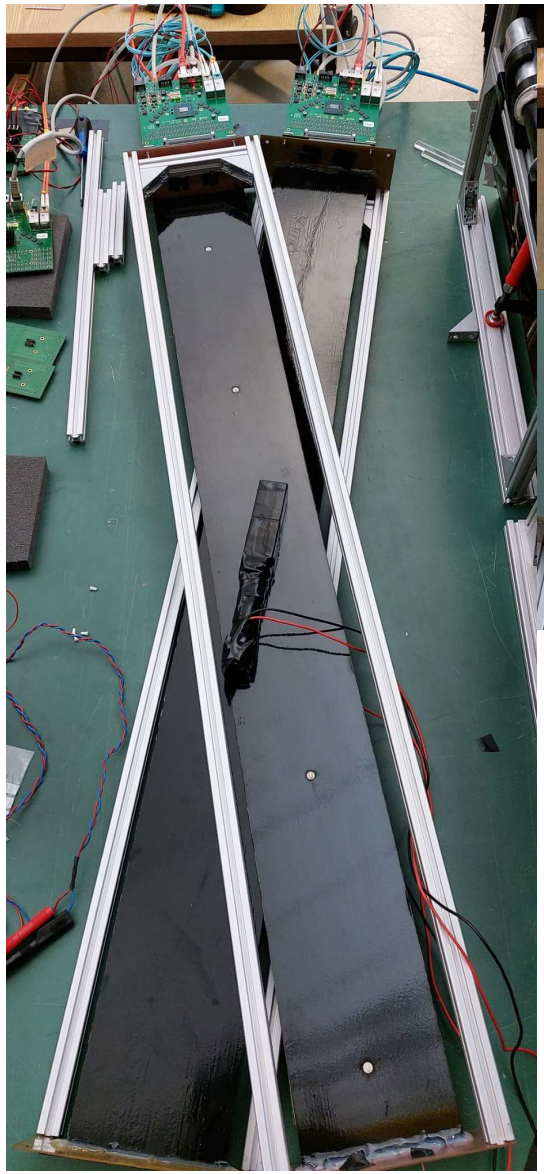


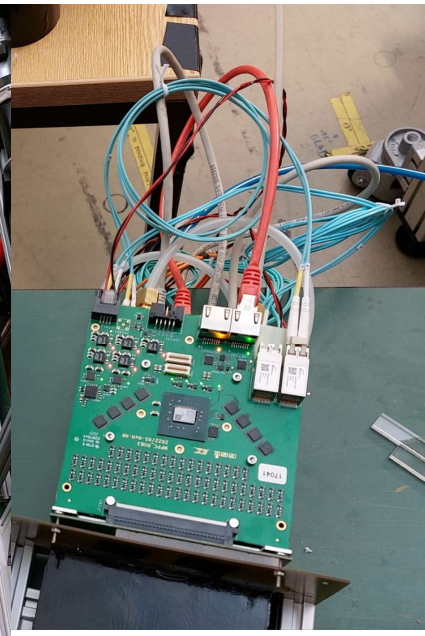
Developments with 1d array



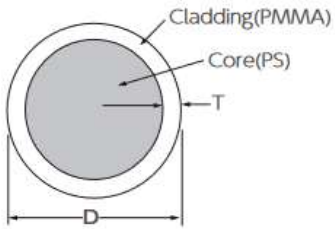
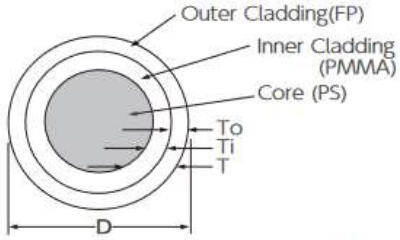
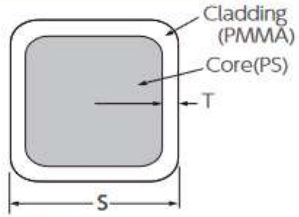






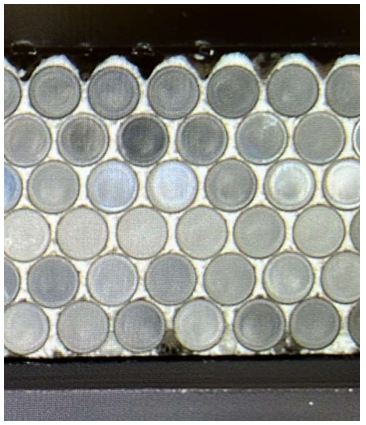


Two Types of fiber ribbons, see next slide

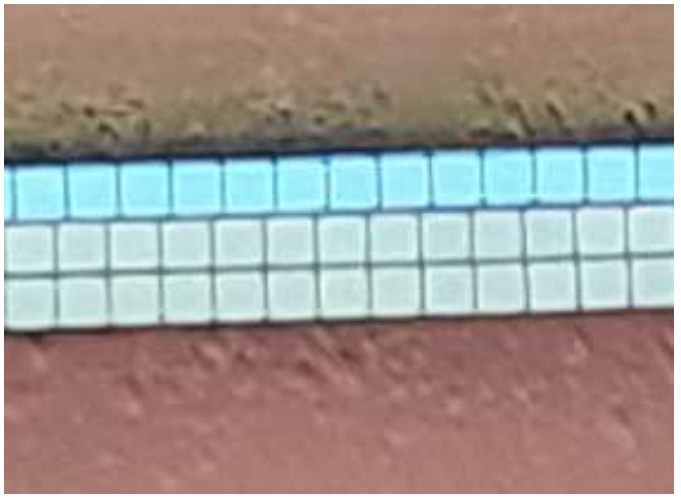
	Single Cladding	Multi-Cladding (M)
Round Fiber (D)	 Cladding Thickness[1]: T=2% of D Numerical Aperture : NA=0.55 Trapping Efficiency : 3.1%	 Cladding Thickness[2]:T=2%(To)+2%(Ti) =4% of D Numerical Aperture : NA=0.72 Trapping Efficiency : 5.4%
Square Fiber (SQ)	 Cladding Thickness : T=2% of S Numerical Aperture : NA=0.55 Trapping Efficiency : 4.2%	Not available

1) In some cases, cladding thickness T is 3% of D. 2) In some cases, cladding thickness T is 6% of D, To and Ti are both 3% of D.

LHCb:
one Fiber:
0.25mm*0.92 = 0.23 mm Scint
Trapping Eff: 5.4%



GSI:
one Fiber:
0.5mm*0.96 = 0.48 mm Scint
Trapping Eff: 4.2%



Test Cables between SiPM and MPPC_ROB using Matrix Array from Wasa