



Оптимизация сектора малого BBC

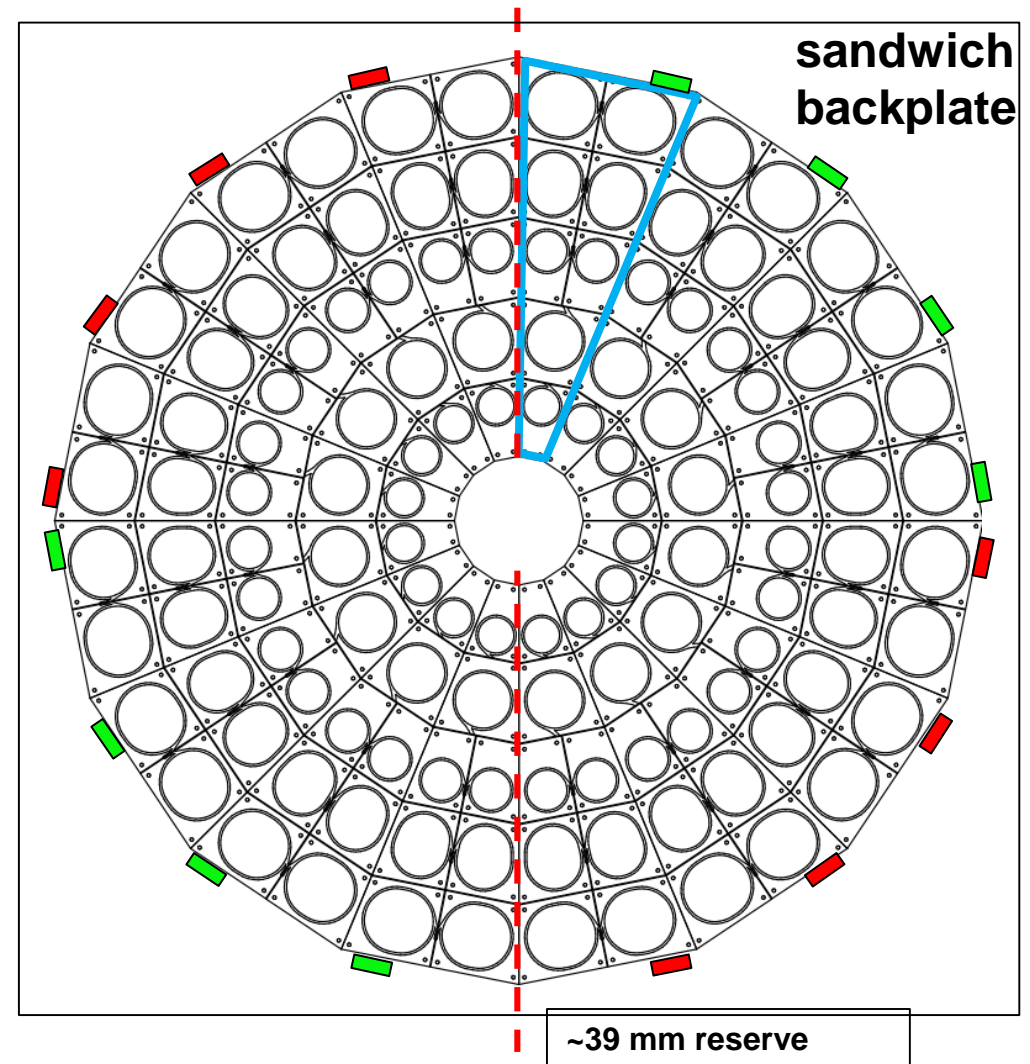
A.V.Tishevsky on behalf of JINR-MEPhI BBC

Sandwich backplate for BBC



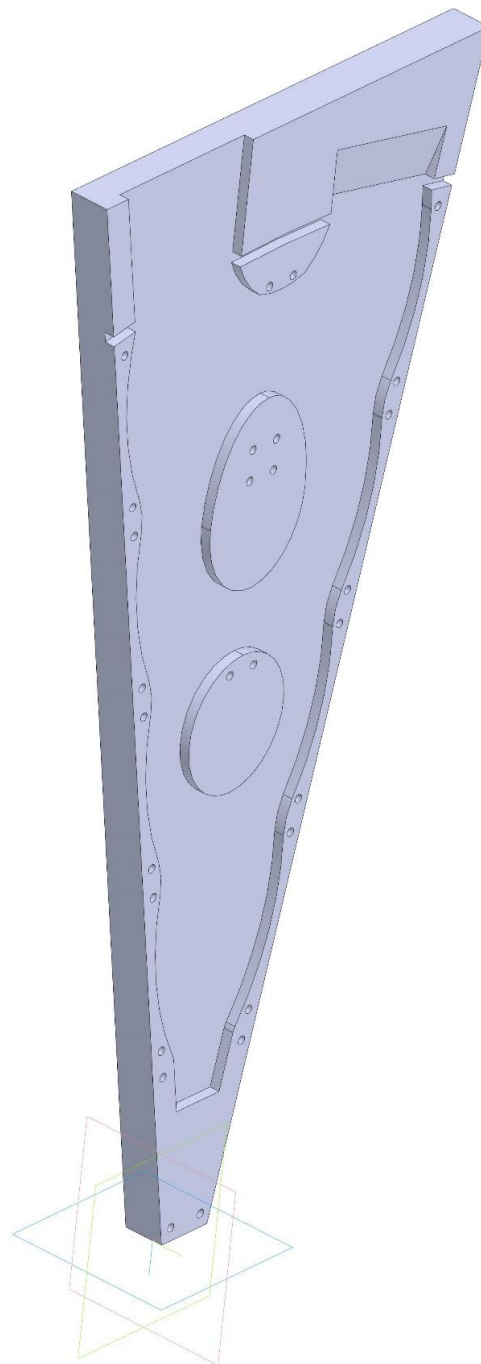
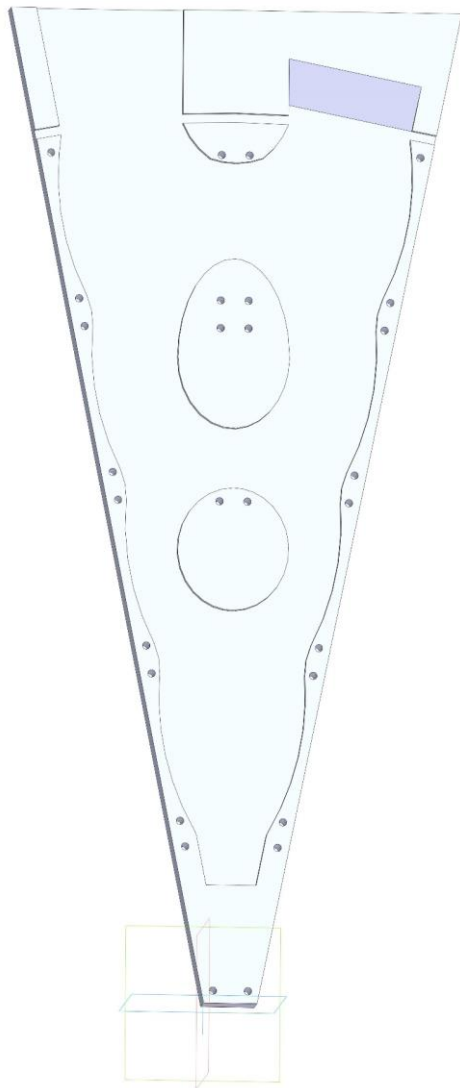
The grooving map is finalizing

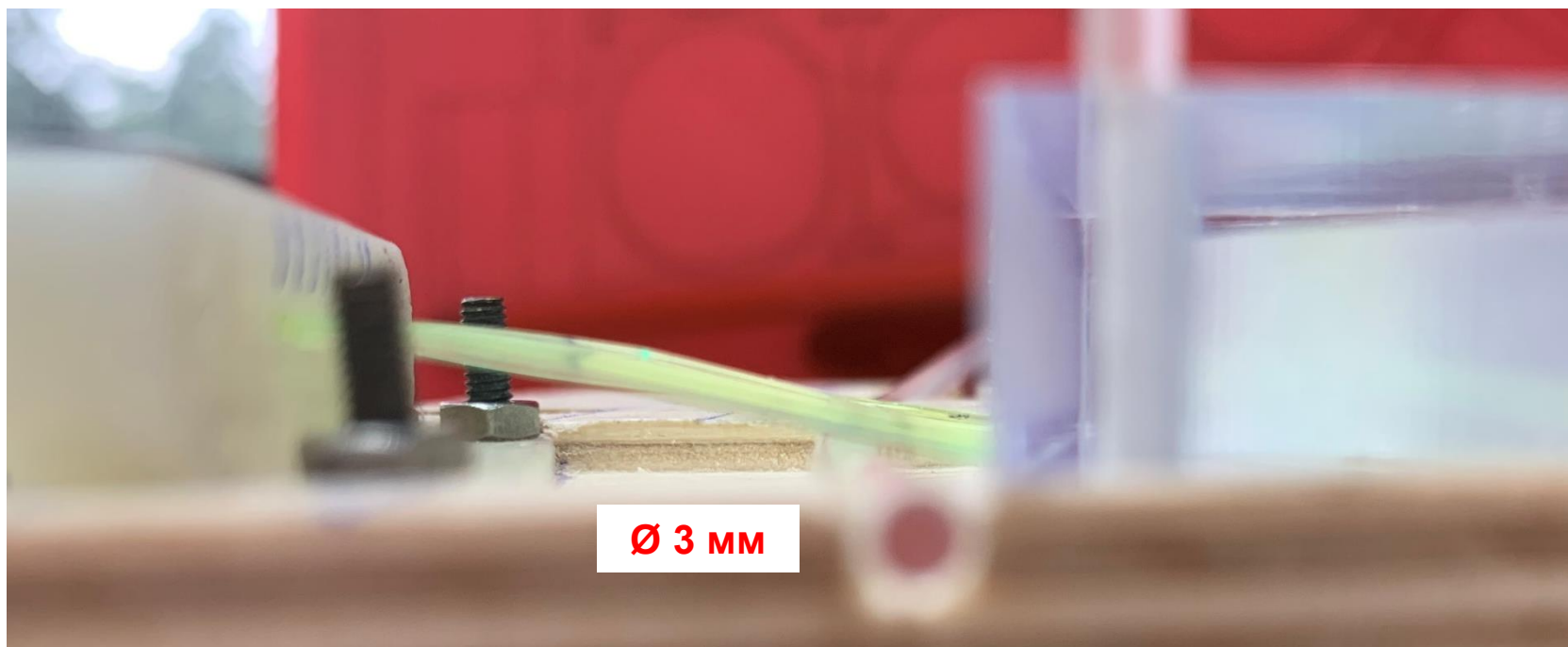
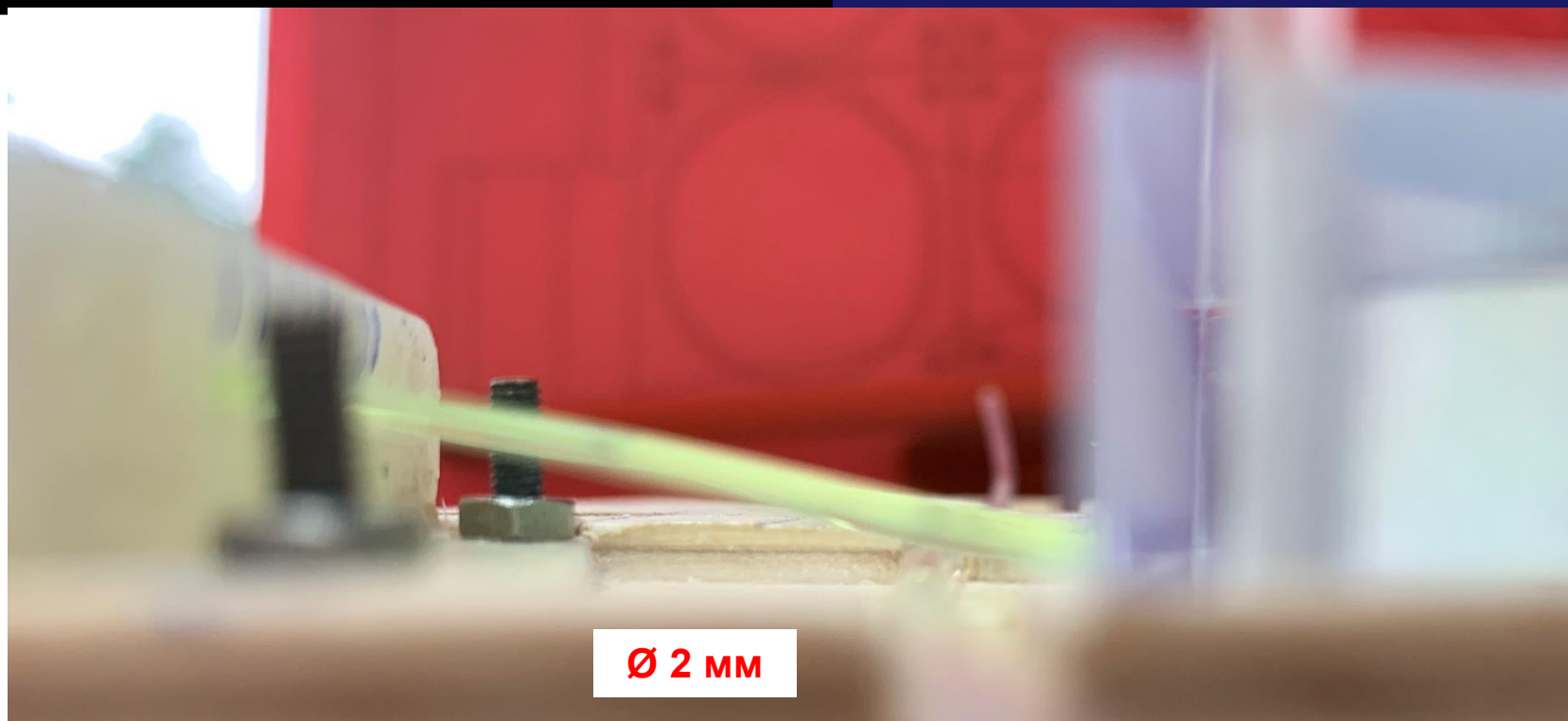
- The next part is to take into account the grooving map, simulate the deformations of the backplate and select its main option.
- After that, the details of the basic mechanical frame will be completed

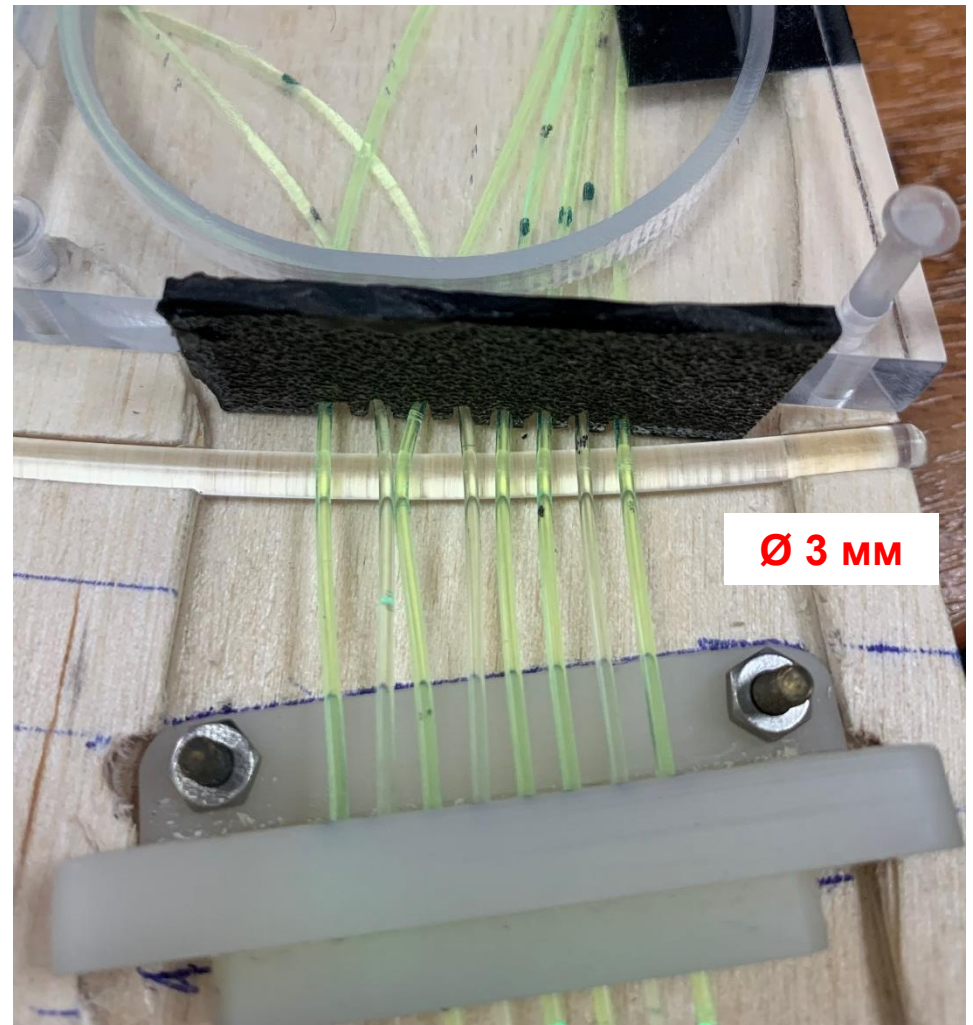
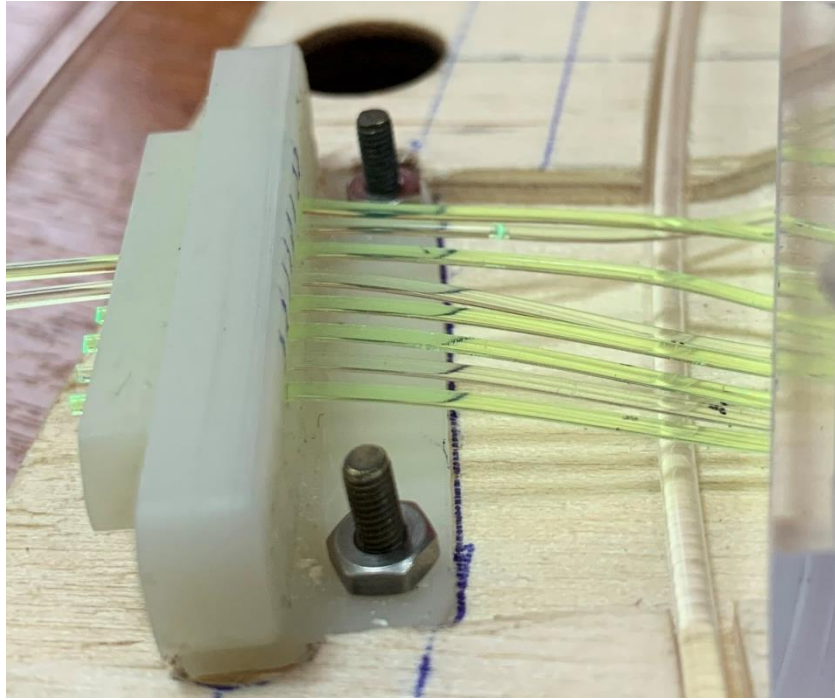


Ver. 4.2

финализация
положения разъёма





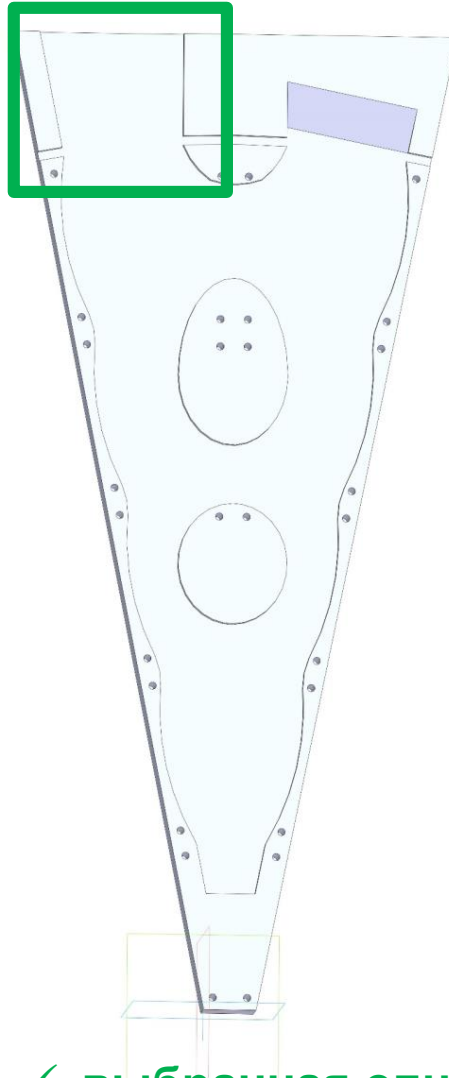


Ver. 4.1



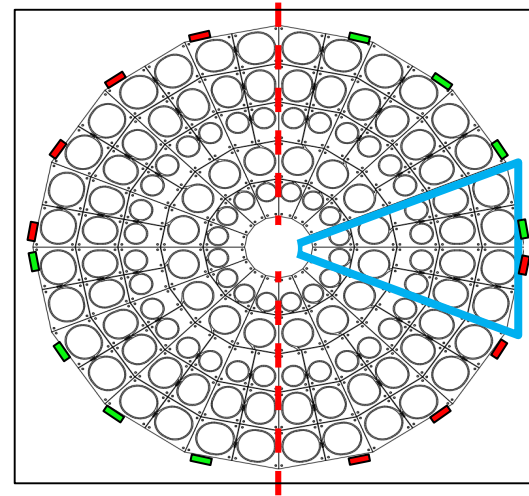
Ver. 4.2

финализация
положения разъёма



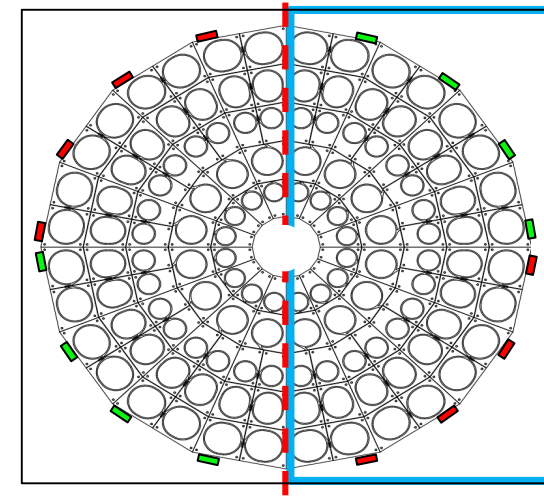
Ver. 4.3

прорабатывание
наиболее проблемных
секторов



Ver. 4.4

изготовление
1-й половинки для
малого кольца
(фанера)



✓ выбранная опция

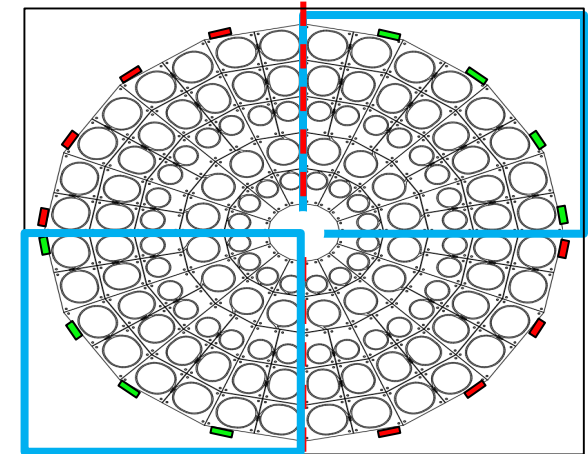
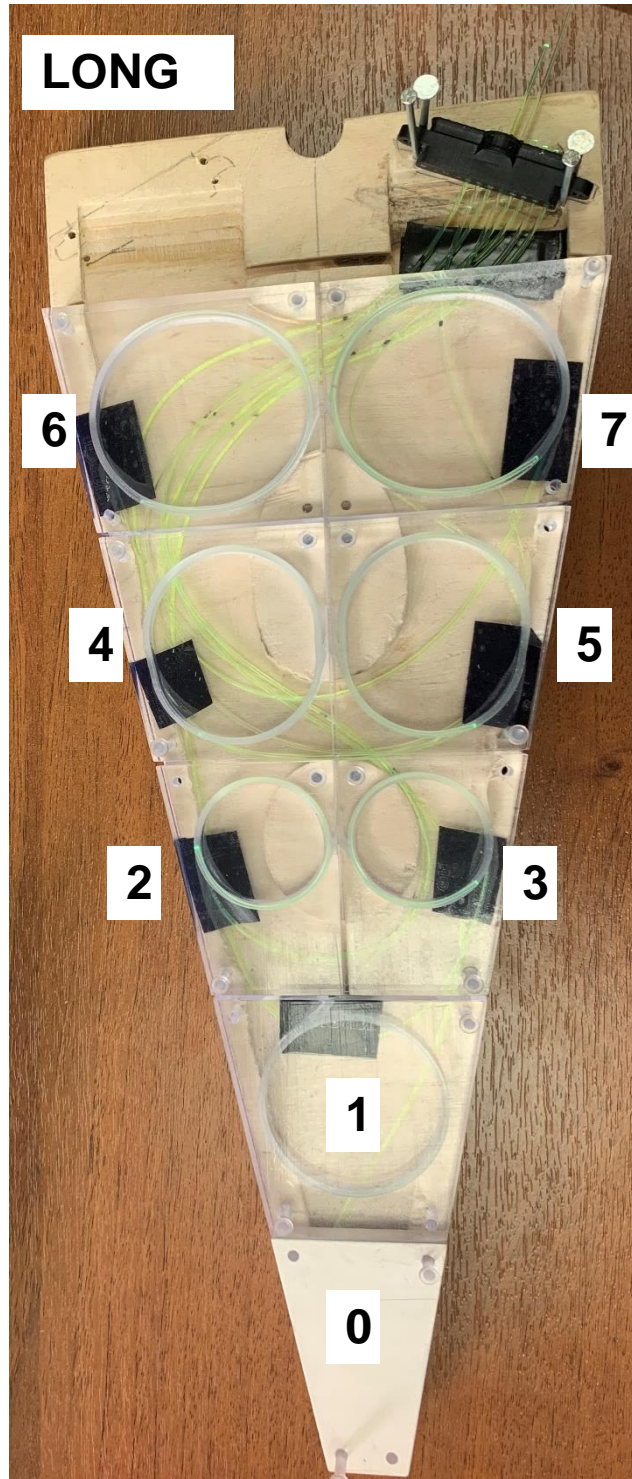
- рассмотреть варианты крепления
- финализация длин WLS

Backup

SHORT



LONG

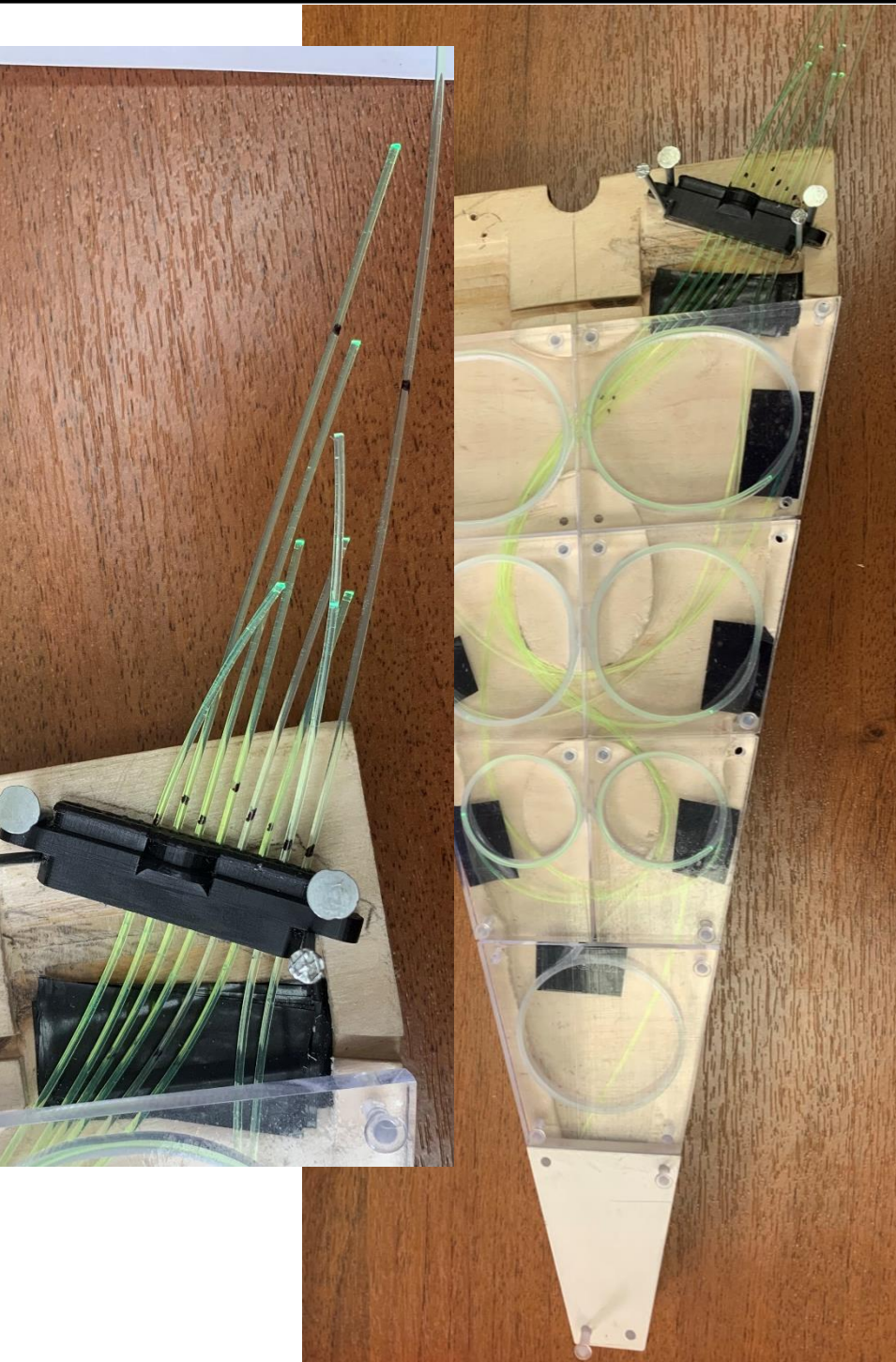


WLS length = 420 (to all)

The output for 0 & 1 tiles
without changes

7	6	5	4	3	2	1	0	
> 3,2	> 4,8	> 5,5	= 5,2	> 5,8	> 3	> 3,5	> 3	cm
								~7cm

BBC assembling part

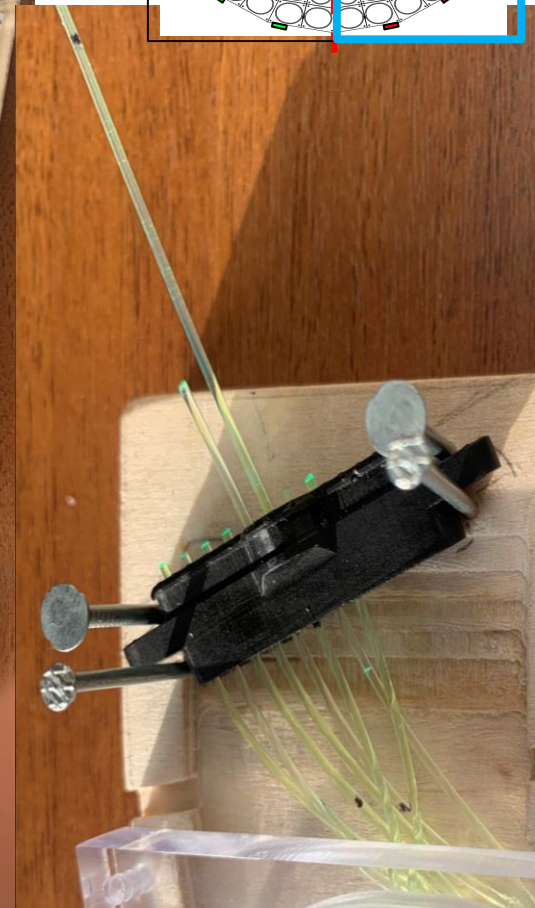
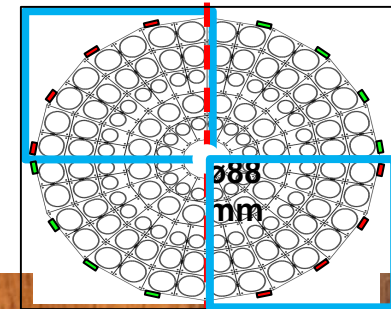
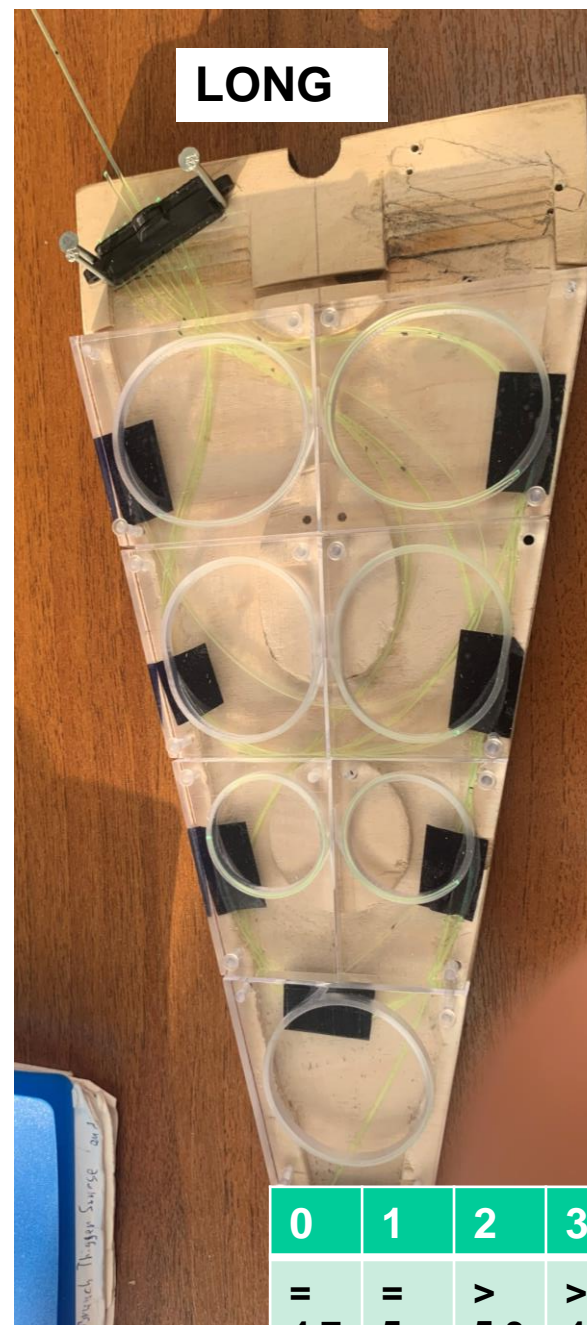
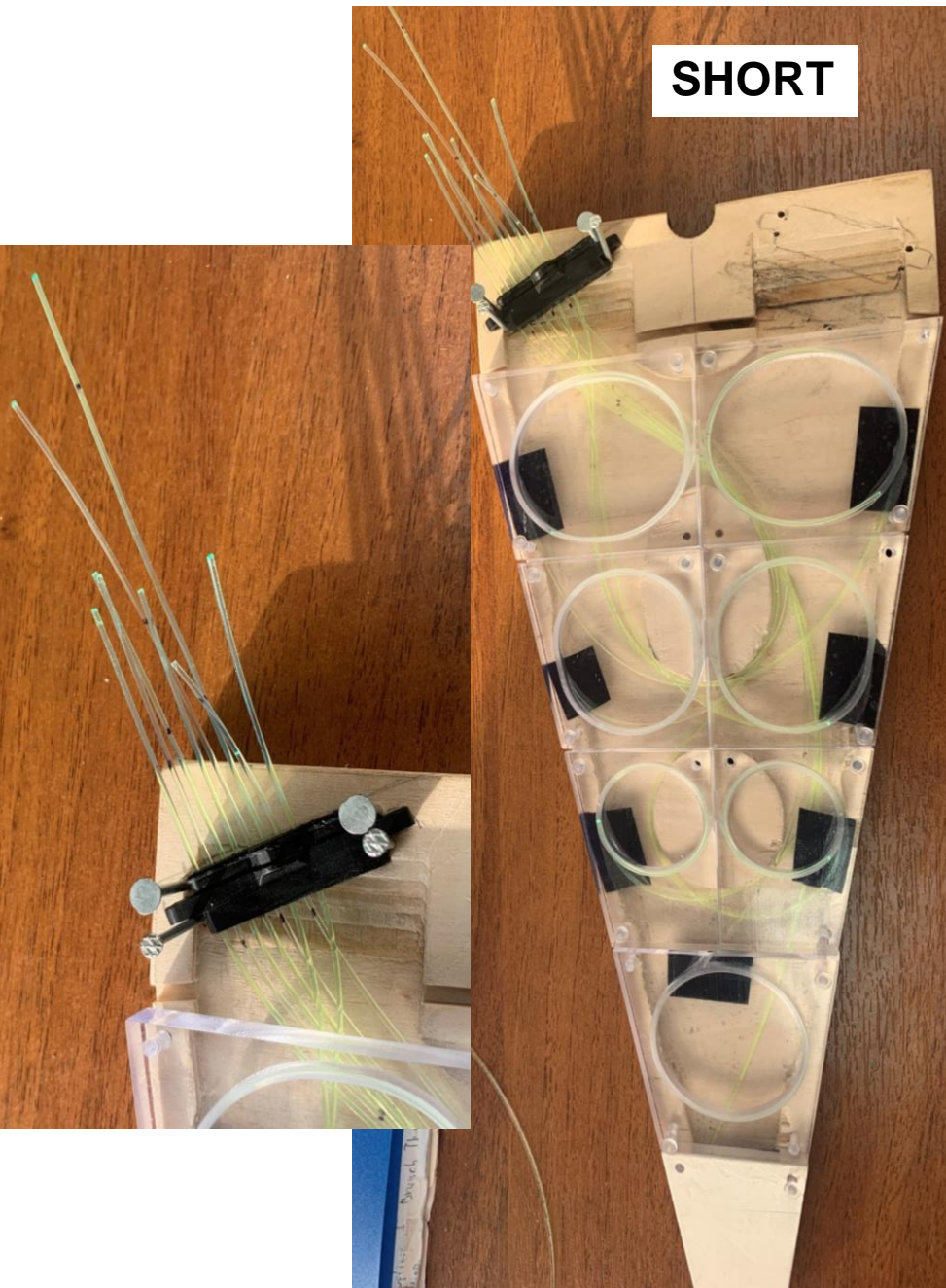


укладка WLS без перекрестий



BBC assembling part

The ways for WLS (left output)



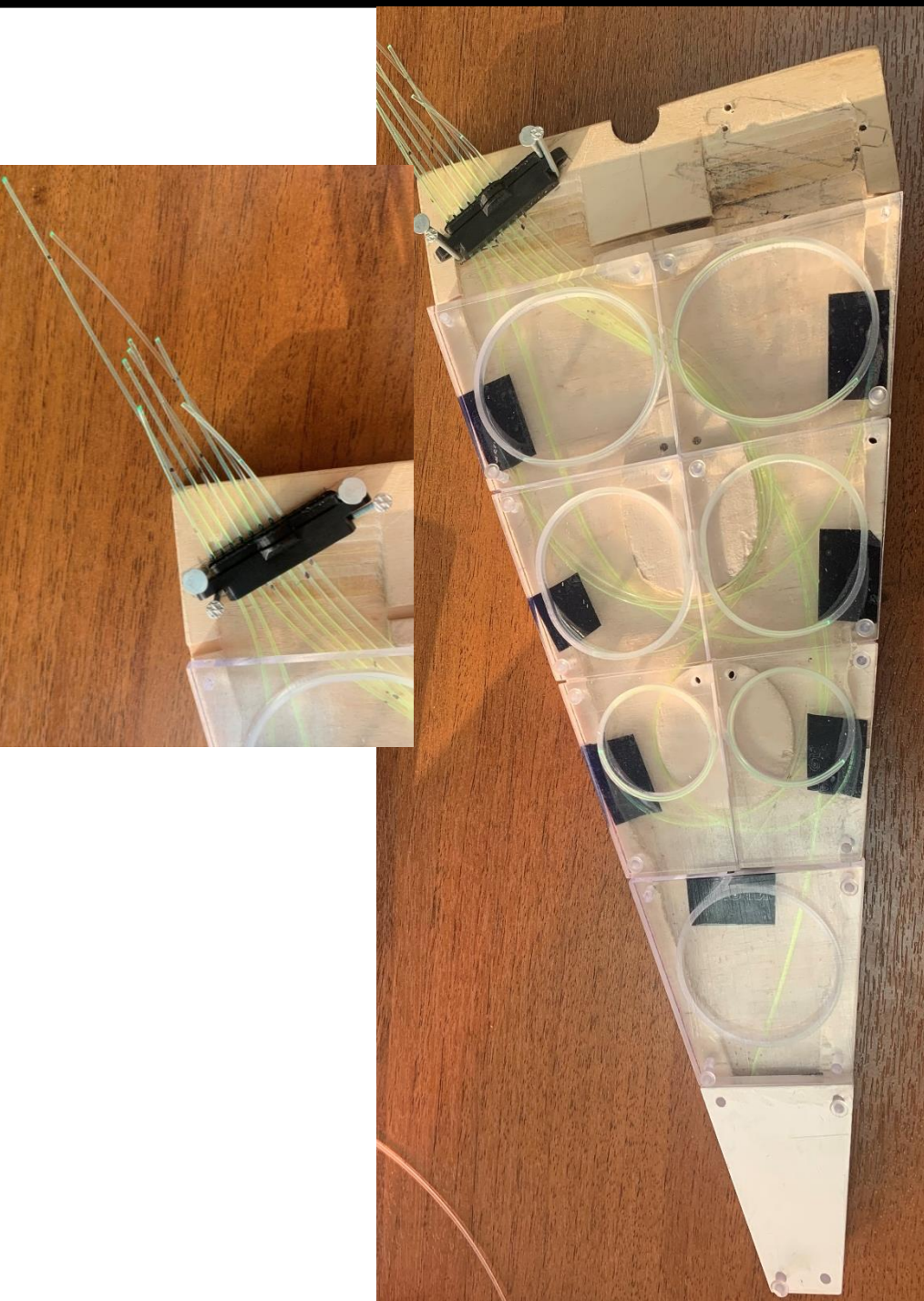
0	1	2	3	4	5	6	7
=	=	>	>	=	>	>	>
4,7	5	5,3	4,7	7,3	3,5	3,3	4,7

cm

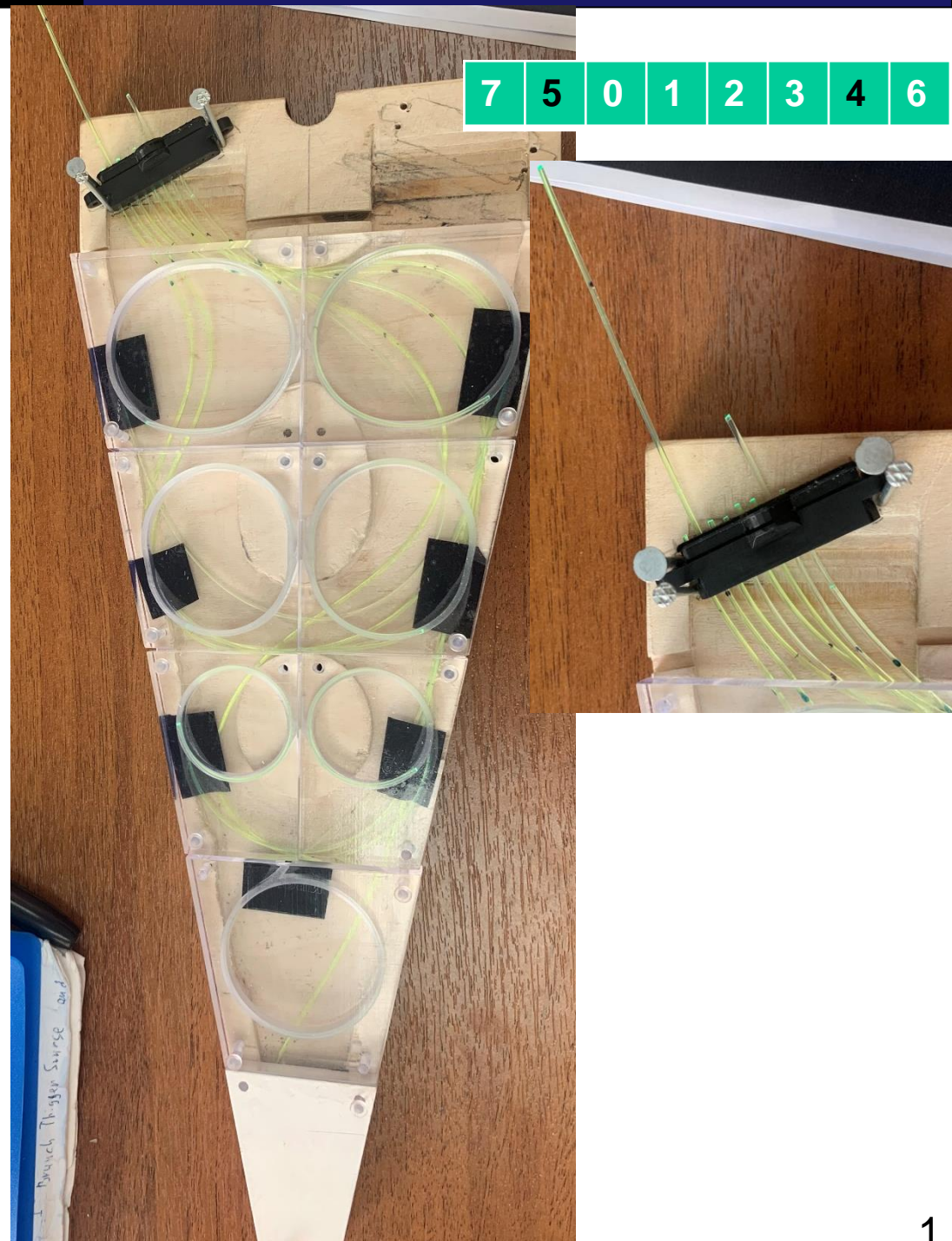
1

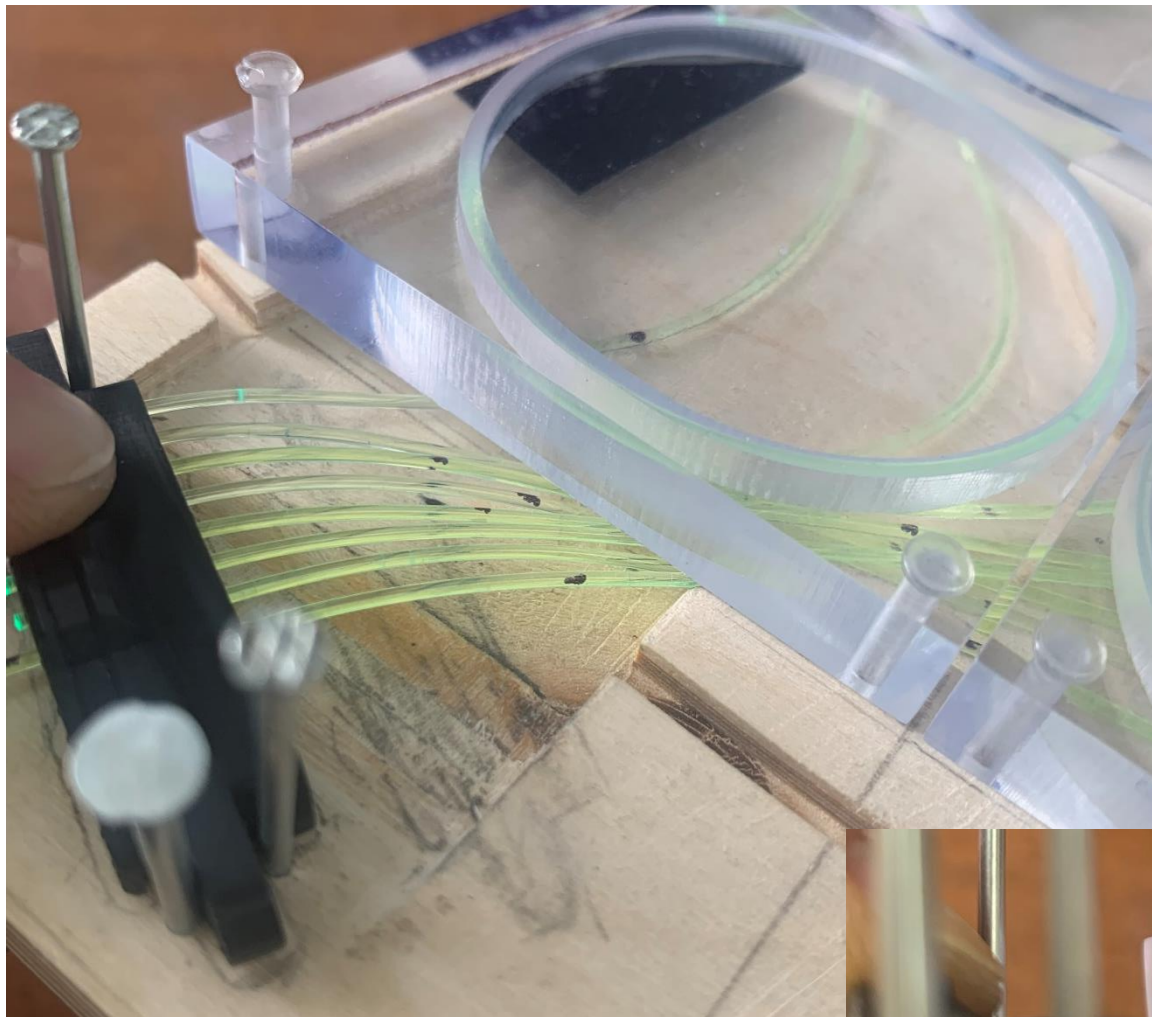
0

BBC assembling part



укладка WLS без перекрестий





left output

7	5	0	1	2	3	4	6
> 4,7	> 3,5	= 4,7	= 5	> 5,3	> 4,7	= 7,3	> 3,3

cm

right output

7	5	3	2	1	0	4	6
> 3,2	> 5,5	> 5,8	> 3	> 3,5	> 3	= 5,2	> 4,8

cm

~7cm
(max)

✓ assembly rules

- Consider the procedure for redoing the connector.

✓ Preparation of infrastructure for mass production
(obtaining equipment, equipping rooms, etc.)

✓ Materials

- Development of methods of mass production
(tools + algorithm)

Tiles and sectors: gluing frames



- The algorithm for polishing the connector has been proposed. The further developments are required:

algorithm working group BBC@MEPhI

tool working group BBC@JINR



- **Provide transportation** options for finished tiles
(sector wood backplates; 1/2 wheel wood backplates(x2))