

LASER INTERFEROMETER GRAVITATIONAL WAVE OBSERVATORY
- LIGO -
CALIFORNIA INSTITUTE OF TECHNOLOGY
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<h2>Optical Lever Beams Mechanical Layout</h2>			
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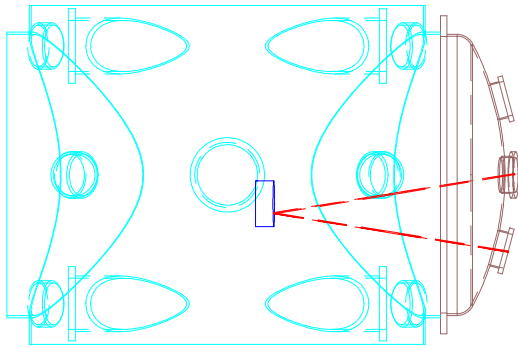
LIGO DRAFT

1 OPTICAL LEVER BEAMS IN THE 2K IFO

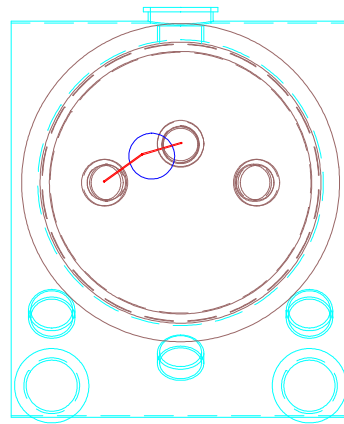
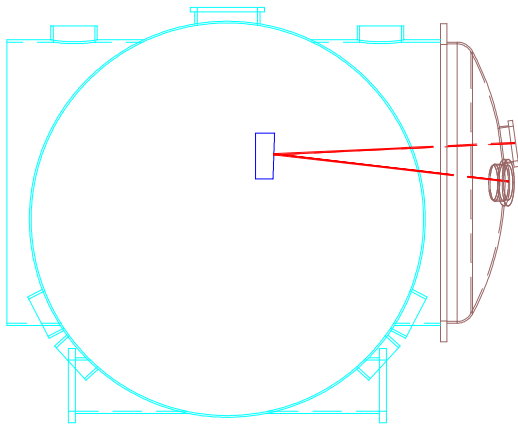
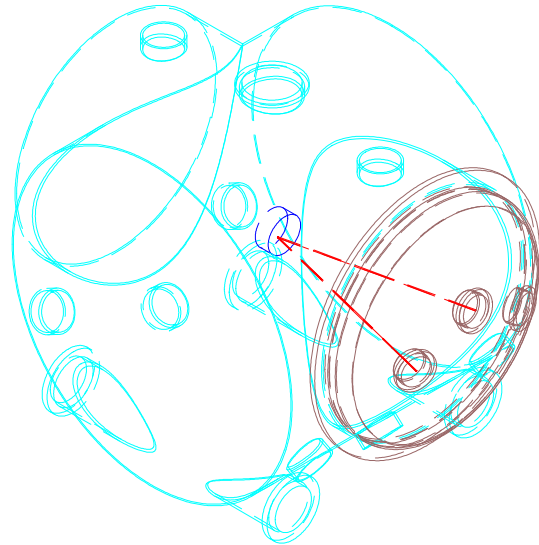
1.1. MMT3, HAM7

•MMT3 wedge orientation

thick side up



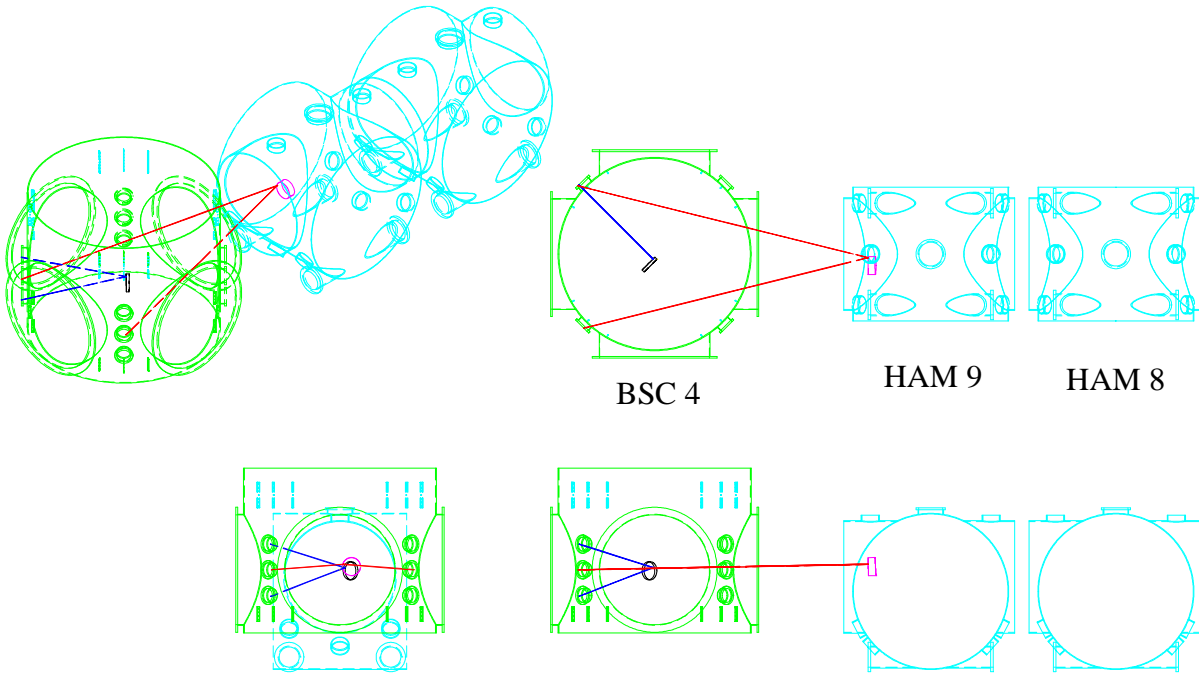
HAM 7



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1.2. RM & BS, BSC4

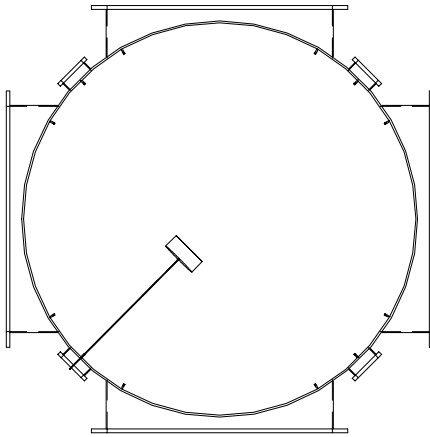
- RM wedge orientation thick side down
- BS wedge orientation thick side up



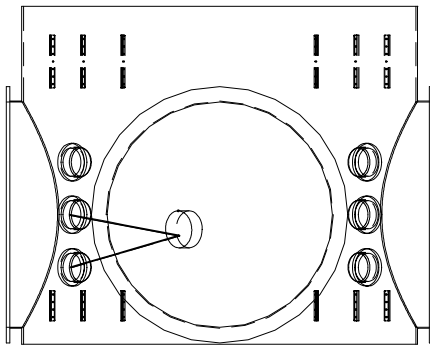
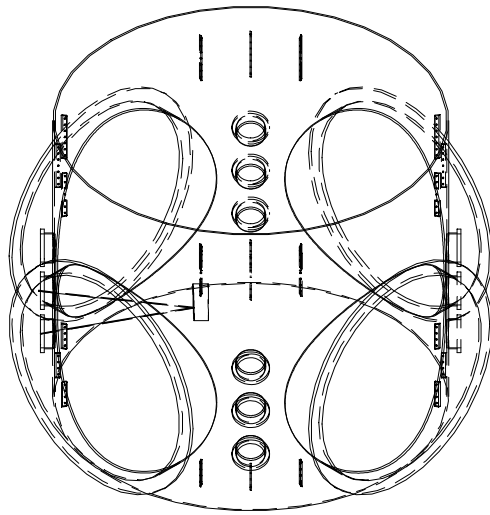
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1.3. FMx, BSC7

- FMx wedge orientation thick side up



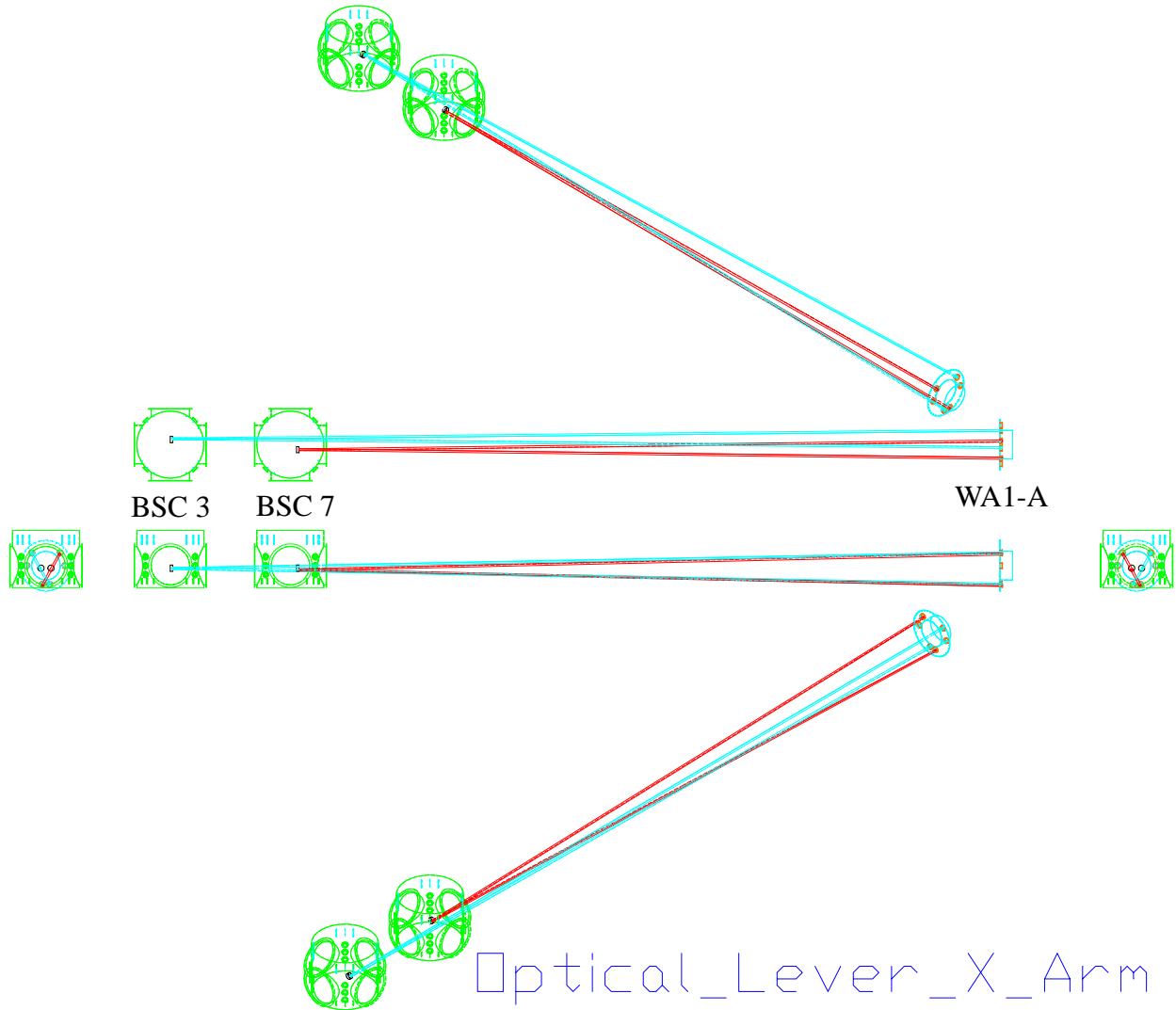
BSC 7



Optical_Lever_FMx

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1.4. ITM_x, WA1-A

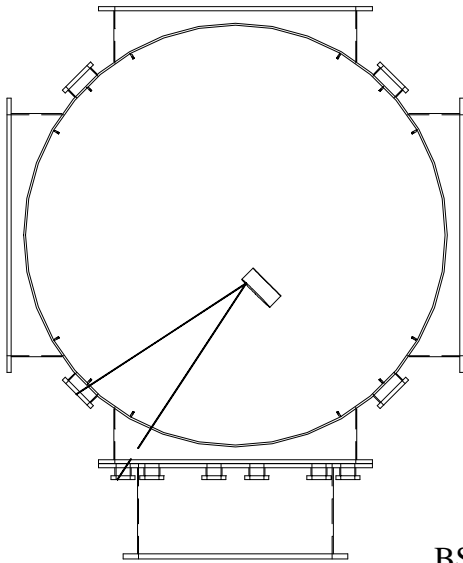


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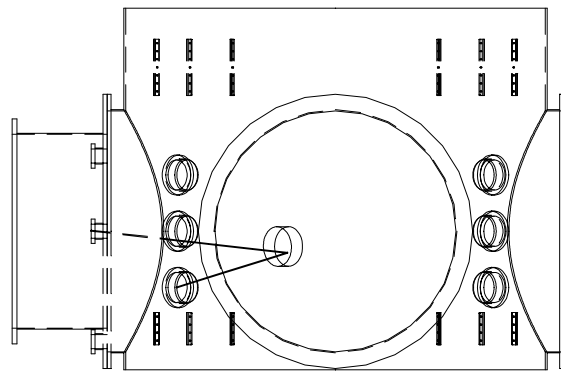
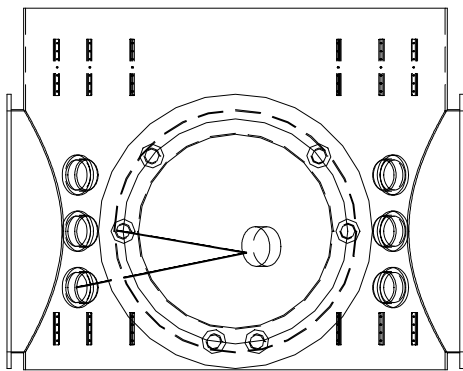
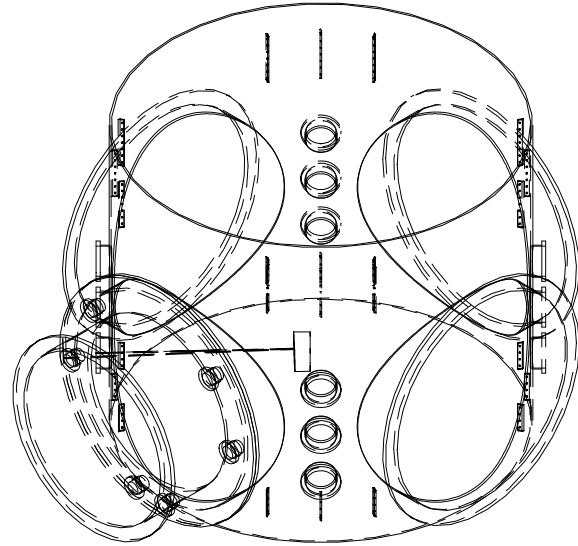
1.5. FMy, BSC8

- FMy wedge orientation thick side up

Optical_Lever_FMy

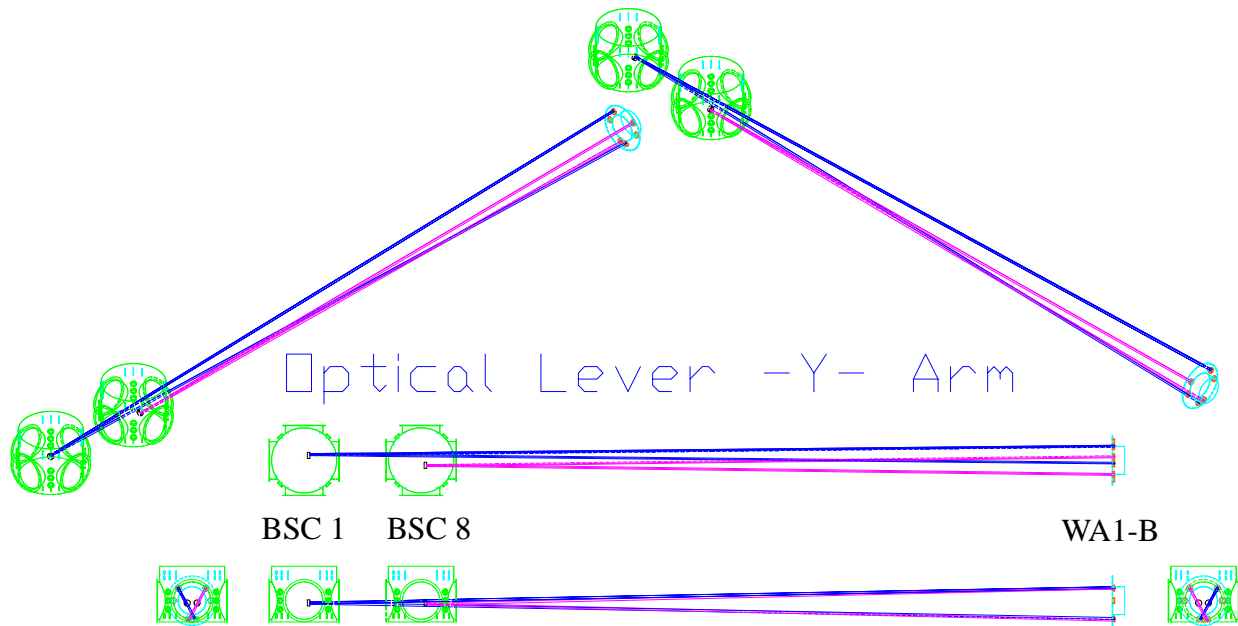


BSC 8



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1.6. ITMy, WA1-B

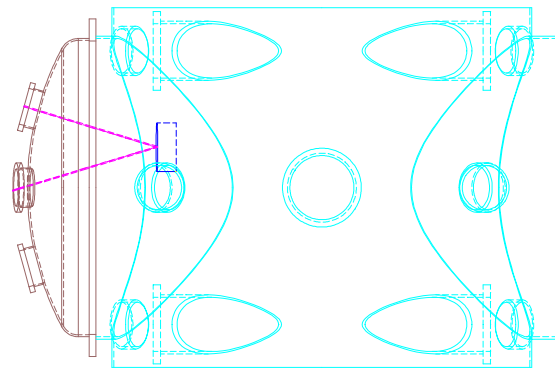
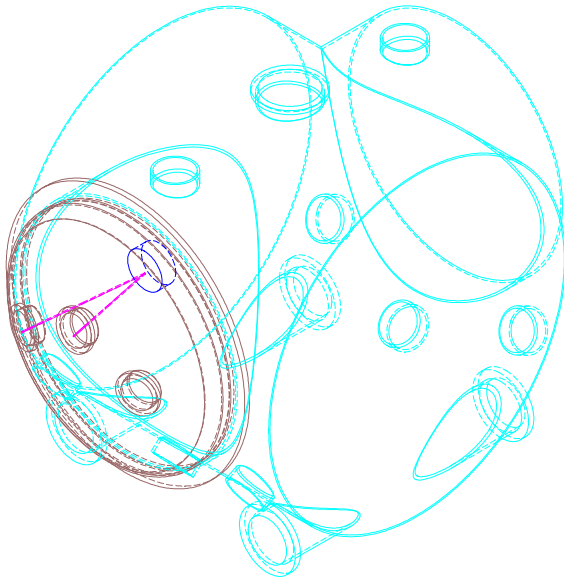


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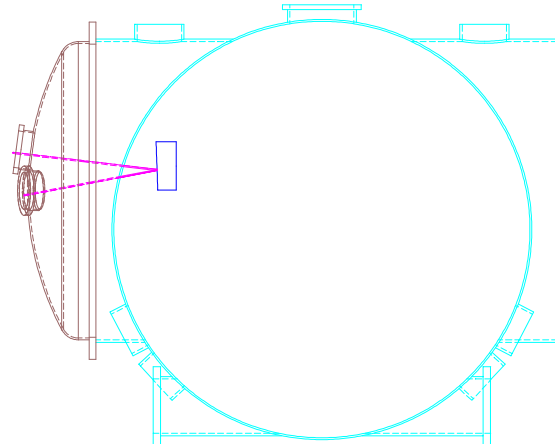
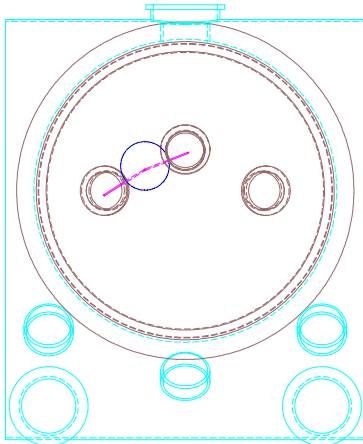
2 OPTICAL LEVER BEAMS IN THE 4K IFO

2.1. MMT3, HAM1

- MMT3 wedge orientation thick side up



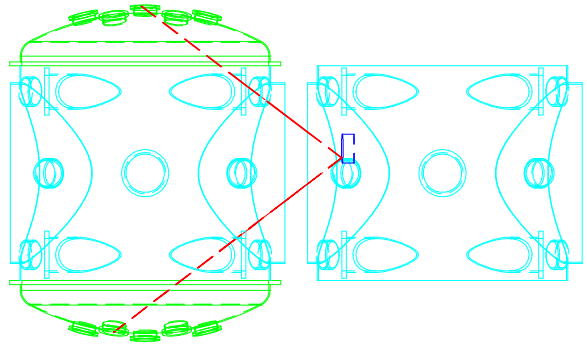
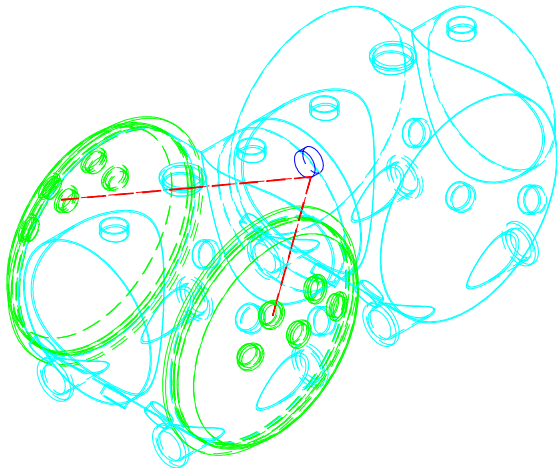
HAM 1



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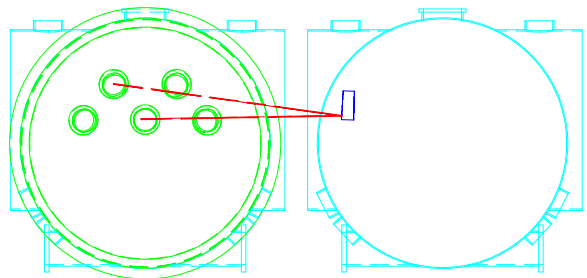
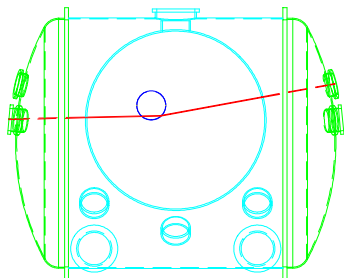
2.2. RM, HAM2

- RM wedge orientation thick side down



HAM 2

HAM 3

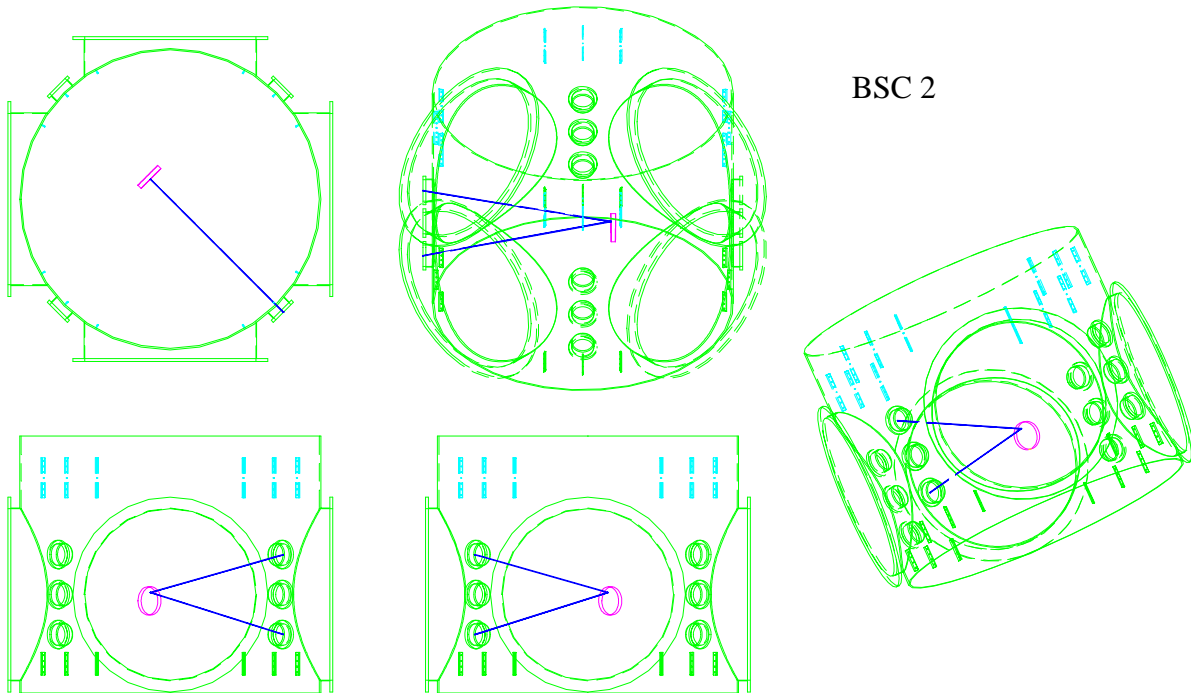


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2.3. BS, BSC2

- BS wedge orientation thick side up

Optical_Lever_4KBS



2.4. ITM_x, WA1-A

See “ITM_x, WA1-A” on page 5.

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2.5. ITMy, WA1-B

See “ITMy, WA1-B” on page 7.

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