

This presentation will be unified with E1600262

## Existing unit

## Refurbished unit

## New unit

Spare

Damaged OMC



3IFO OMC

L1 OMC



Repaired L1 OMC

PZT / Glue joint

Current H1 OMC

Upgraded H1 OMC

Optics replacement

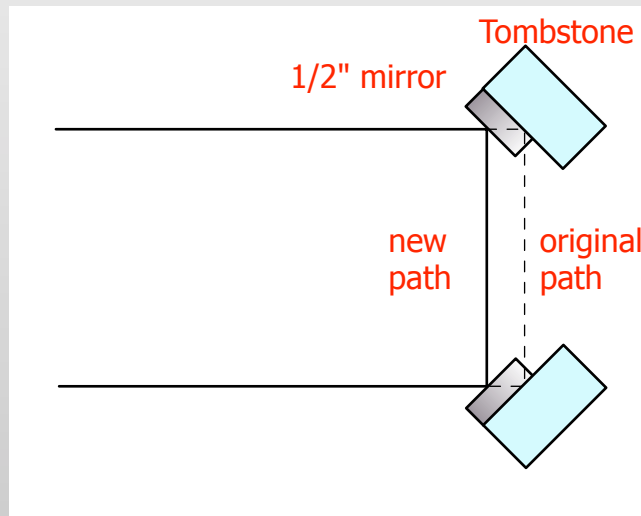
Upgraded L1 OMC

Refurbish?  
New?

Upgraded 3IFO  
OMC

## Optics

- We have just barely enough optics for two units
- Short of two "E" (45deg HR) mirrors
  - => Can be covered by commercial 1/2" mirrors



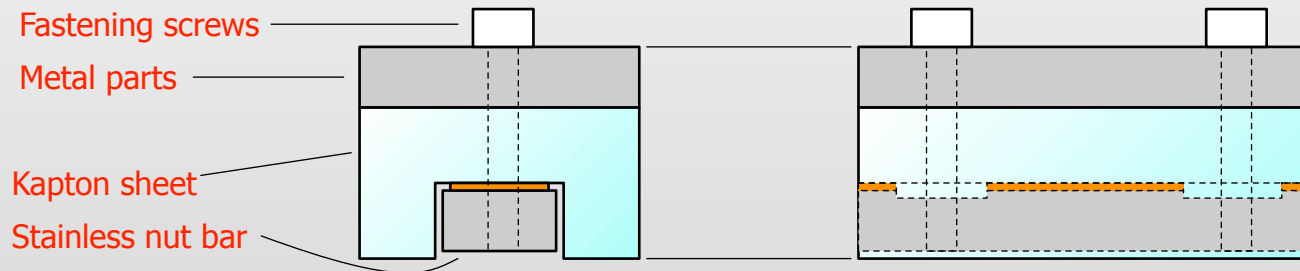
## Further than 2 units

- We need cavity/steering optics and PZTs
- Quality of the cavity optics needs to be improved for minimizing transmission loss (cf. squeezed light injection)

## Other R&D

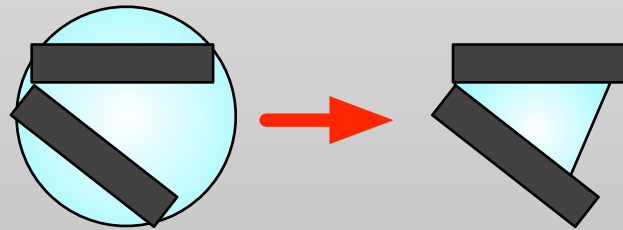
### - Mounting bracket

We discussed the idea of using a glass channel => Need tests



### - Black glass beamdump

Use a glass prism instead of a fused silica base



### - Breadboard bending mode damping

How?