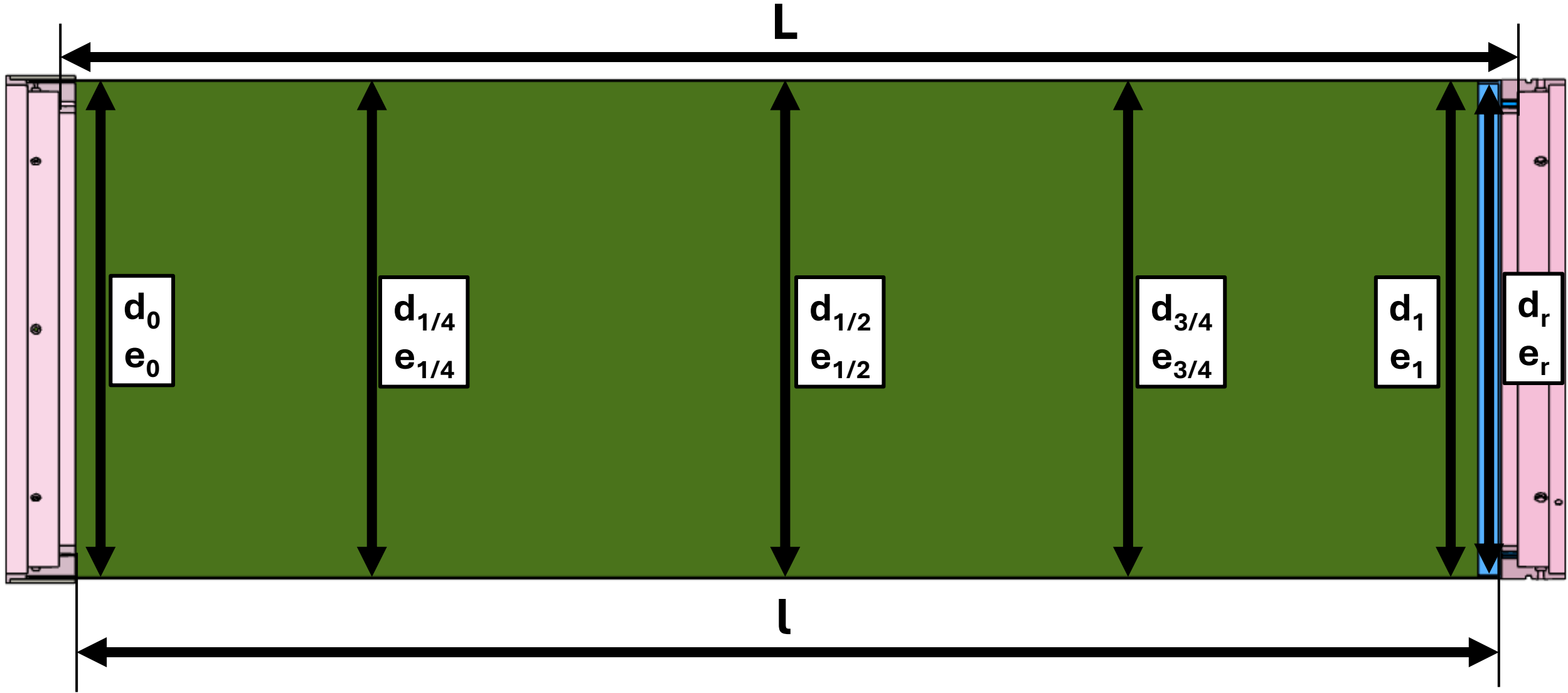


Survey of the Cavity

Stefano Gramigna on Behalf of the Working Group

2024/09/09 BESIII Upgrade Meeting

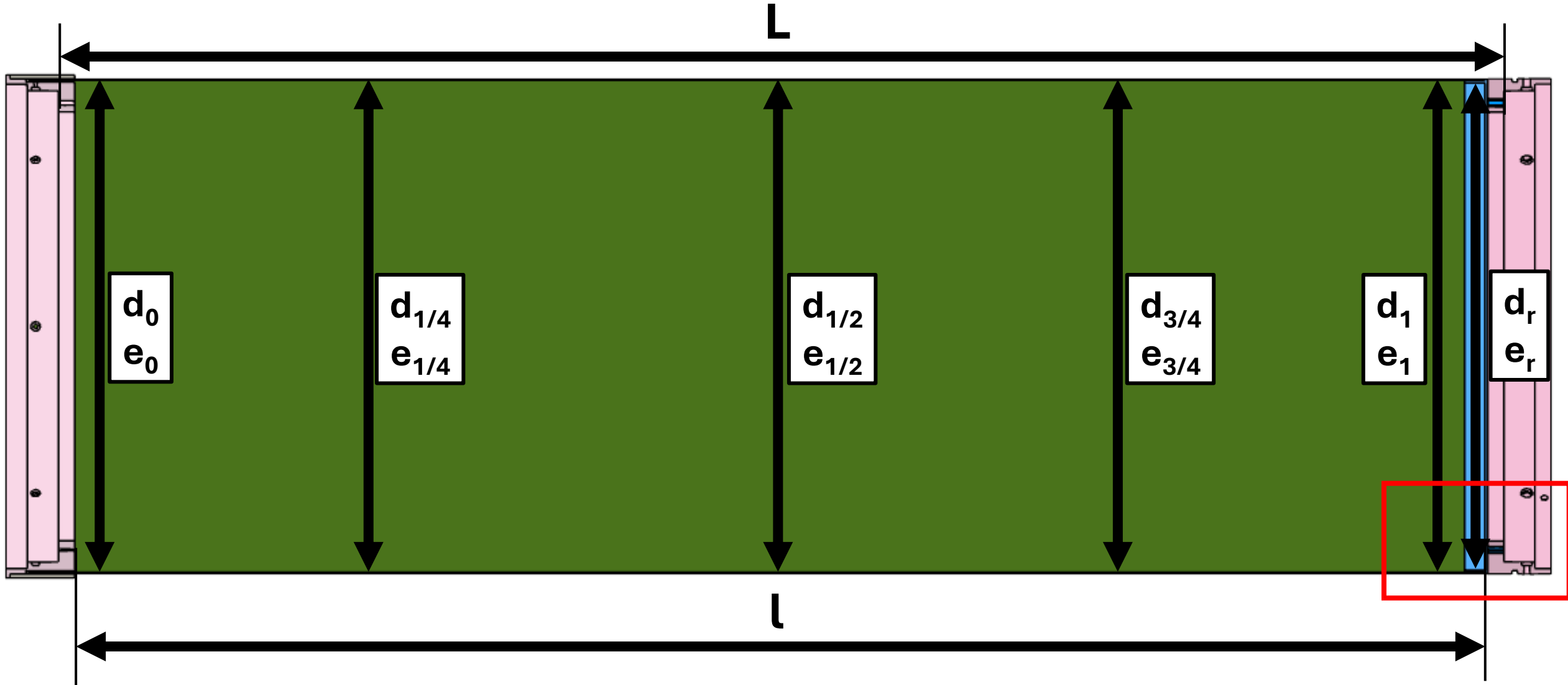


d_n = Diameter at position n

e_n = Ellipticity at position n

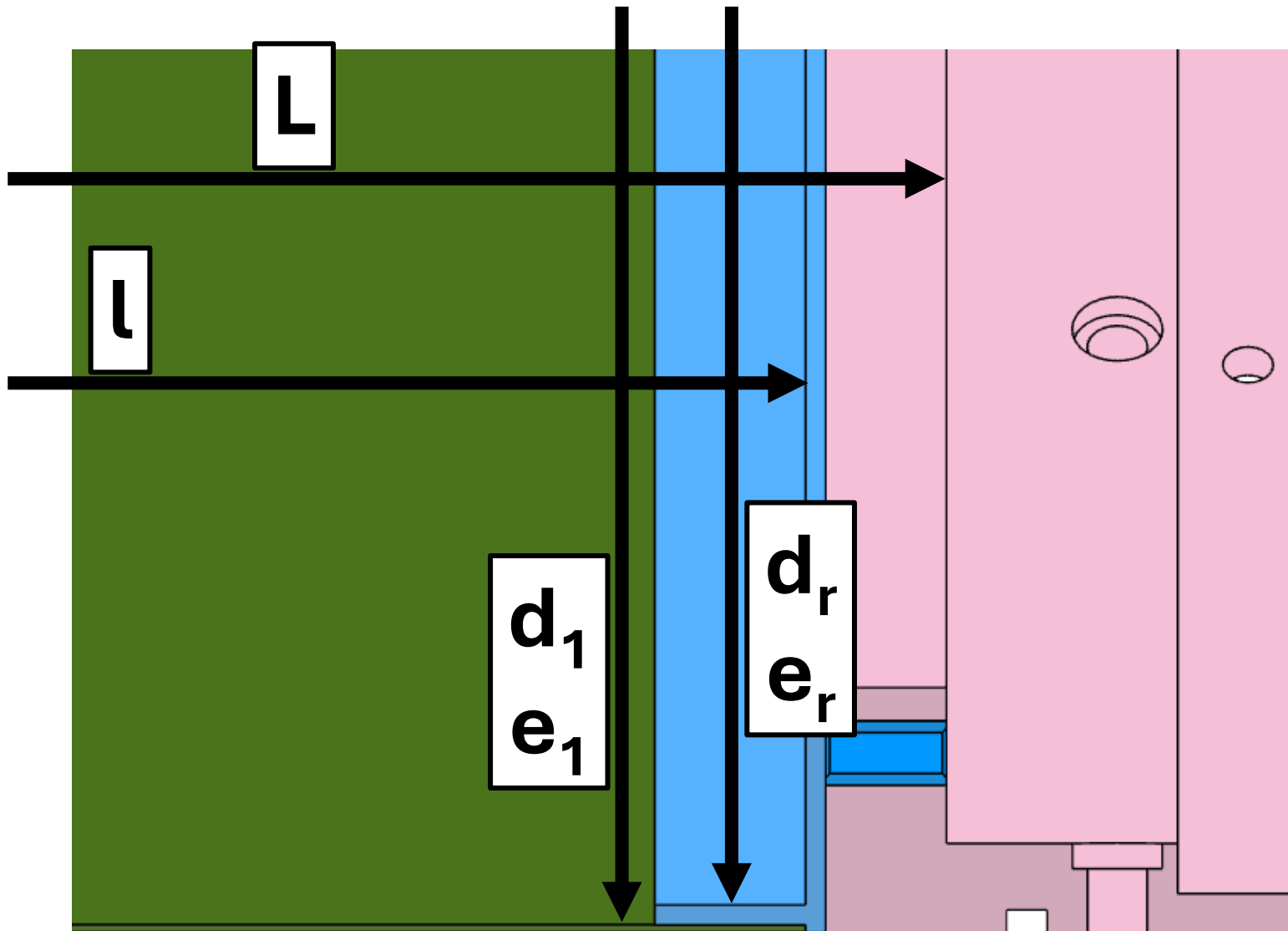
L = Distance between anchoring points

l = Internal length of the cavity (considering the new ring)



d_n = Diameter at position n
 e_n = Ellipticity at position n

L = Distance between anchoring points
 l = Internal length of the cavity (considering the new ring)



Relative Measurements on the MDC Flanges

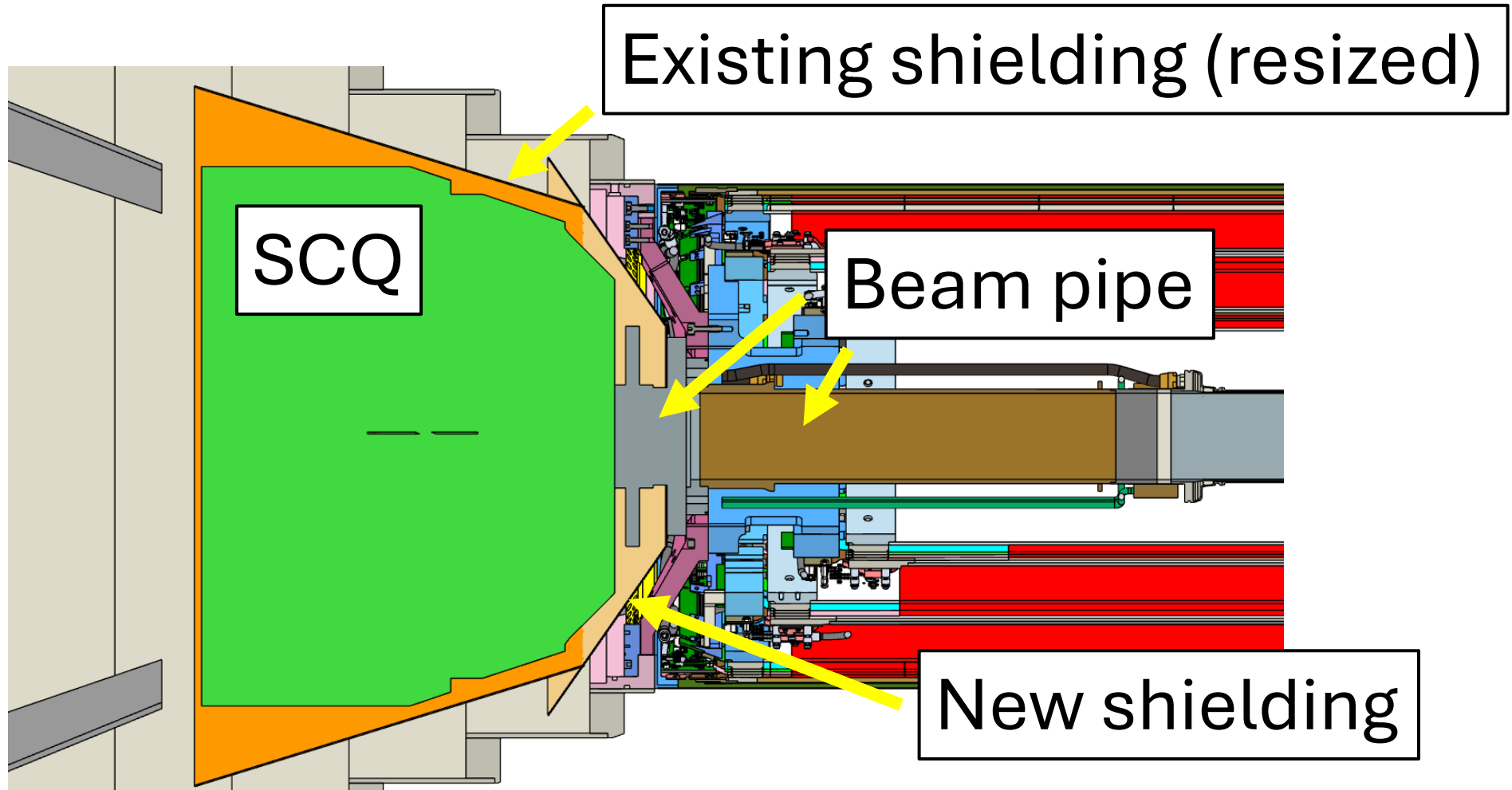
- Parallelism of the MDC flanges
- Perpendicularity of the MDC flanges with respect to the longitudinal axis of the cavity

Considerations

- Measurements should be performed after installing the separation cylinder and test-mounting the EAST flange
- Measurements should be double-checked with conventional tools (rulers, calipers) wherever possible

Inquiry on the Shielding

Shielding Plate Proposal



Last Meeting's Indications

- Shielding to be installed before the positioning of the beam pipe's central section
- No windows are necessary on the shielding plates

ISSUE

The shielding plate prevents access to the pusher screws for the beam pipe's positioning!

SOLUTIONS

Install the shielding plates after positioning the central section of the beam pipe
(RECOMMENDED)

OR

Make windows for accessing the pusher screws
(reduces shielding effectiveness, complicates operations)

Inquiry on Cabling along the Beam Pipe

Which is the Correct BESIII Closing Order?

A

1. Reinsert ECAL endcap
2. Close doors
3. Reinsert SCQ

OR

B

1. Reinsert ECAL endcap
2. Reinsert SCQ
3. Close doors

Thanks for your attention