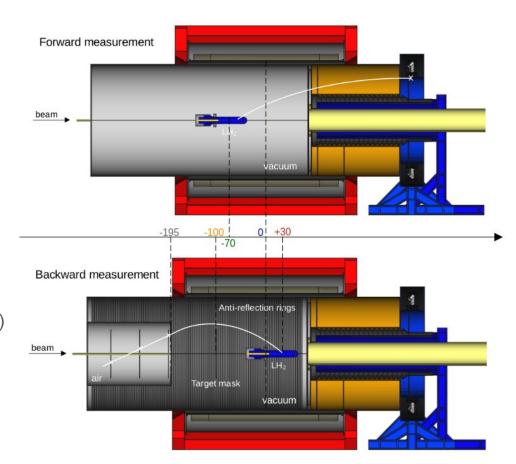
P2 / Basket mechanical design & integration

May 22, 2024

Context

Forward → backward configuration:

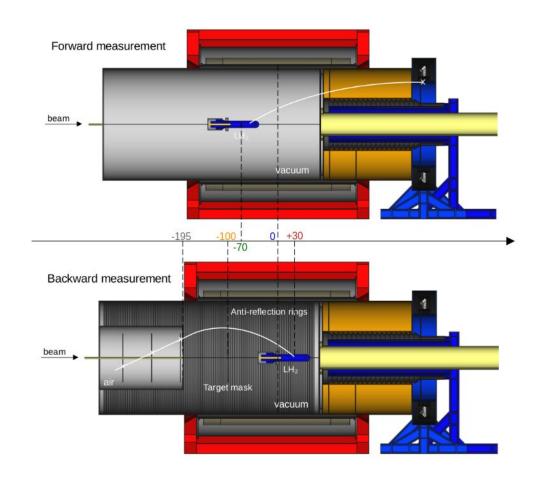
- target moved forward
- new elements:
 - cylinder hosting the tracker (in air)
 - today: design & integration
 - target mask (cuts direct background)
 - Anti-reflection rings (indirect bg.)



Context

Summary of positions

- magnet centre
 - $-Z_{centre} = 0$
- forward measurement :
 - $-z_{\text{target}} = -700 \text{ mm}$
- backward measurement :
 - $-z_{\text{target}} = +300 +600 \text{ mm}$
 - $-z_{mask} = -1000 \text{ mm}$
 - Z_{chapeau} = -1950 mm



Is Basket compatible with Forward configuration?

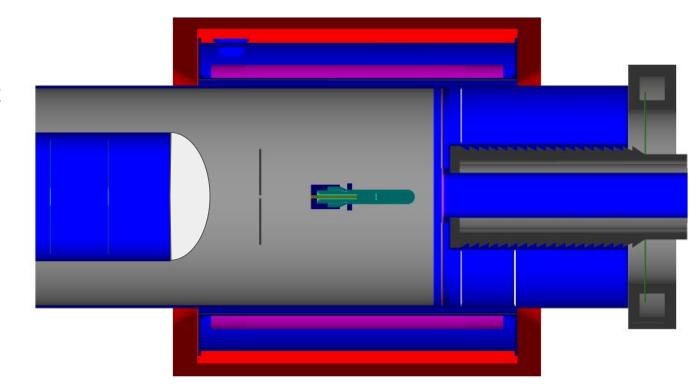
Backward measurement

```
-Z_{centre} = 0
```

- Z_{target} = +300 mm

 $-z_{mask} = -1000 \text{ mm}$

- Z_{chapeau} = -1950 mm



→how much can the membrane stick out?

Is Basket compatible with Forward configuration?

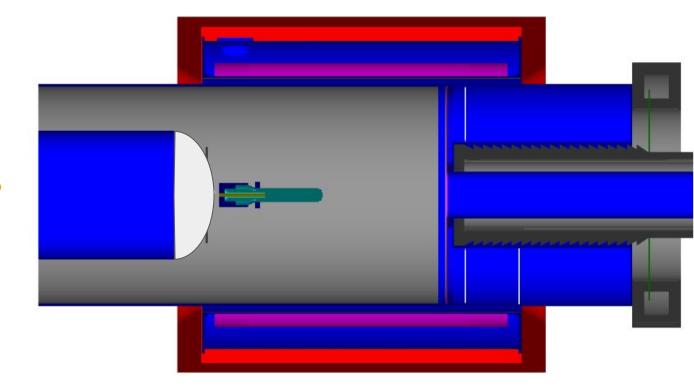
Forward measurement

```
-Z_{centre} = 0
```

 $-z_{target} = -700 \text{ mm}$

 $-z_{\text{mask}} = -1600 \text{ mm}$?

- Z_{chapeau} = -1950 mm

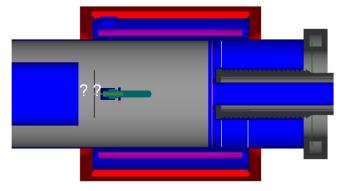


→how much can the membrane stick out?

(Sandrine's presentation)

Questions / discussion

- dimensions of beam pipe and its flanges?
- handling of the bell :
 - crane : height available under ceiling?
 - trolley: how to cross the rails?
- concept that the bell stays in place after installation, for both forward and backward measurements
 - Hydrogen target, target mask, vacuum window should be movable while avoiding clashes
 - can we define exclusion zones?



Next meetings

- June:
 - iteration on today's discussion
 - shielding
- July
 - in-person meeting in Mainz?

dates TBD