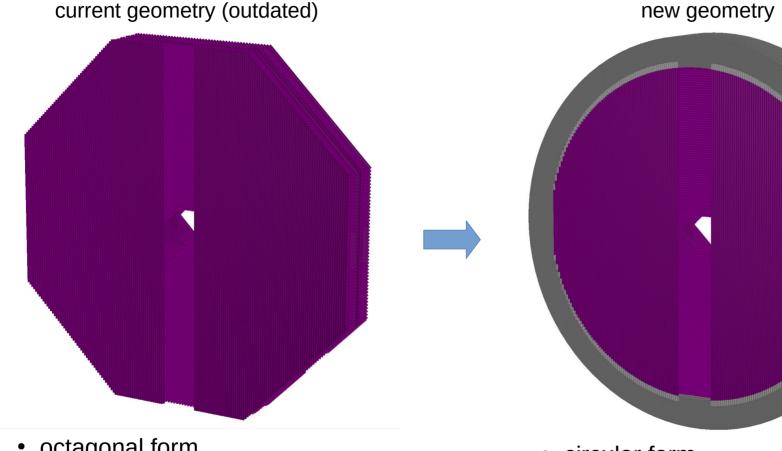
Update of Straw Tracker End-cap Geometry in SpdRoot

Ruslan Akhunzyanov

LHEP JINR

SPD Physics & MC Meeting 20 November 2024

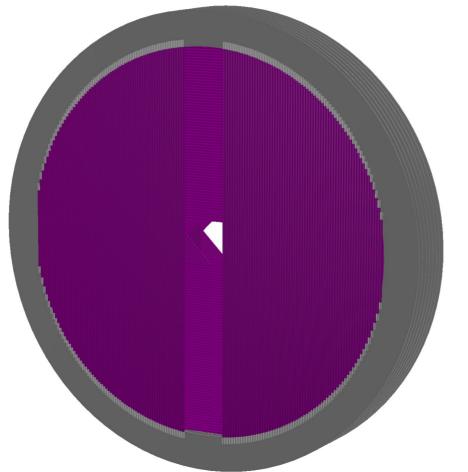
Overview



- octagonal form
- order of planes: X-U-Y-V-X-U-Y-V
- no passive elements

- circular form
- order of planes: X-Y-U-V-X-Y-U-V
- passive elements are added
- · arrangement of straws in plane changed

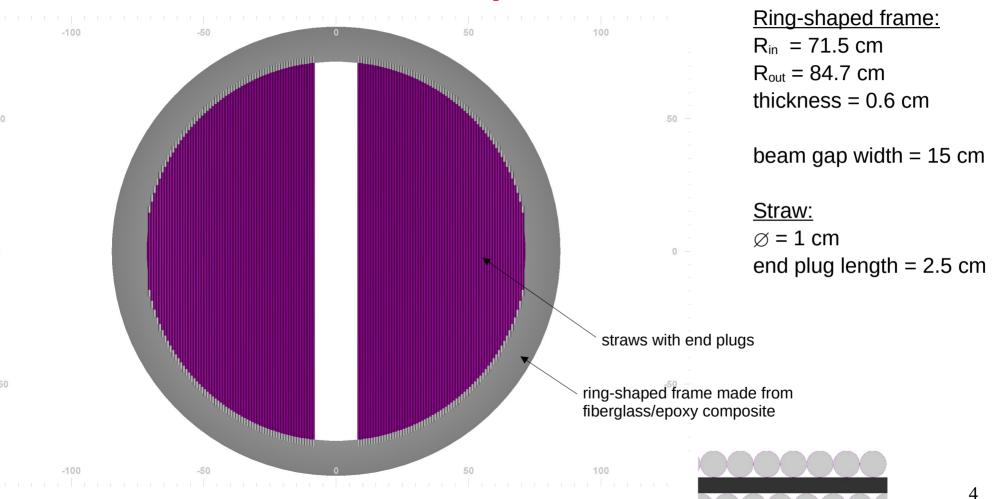
General view



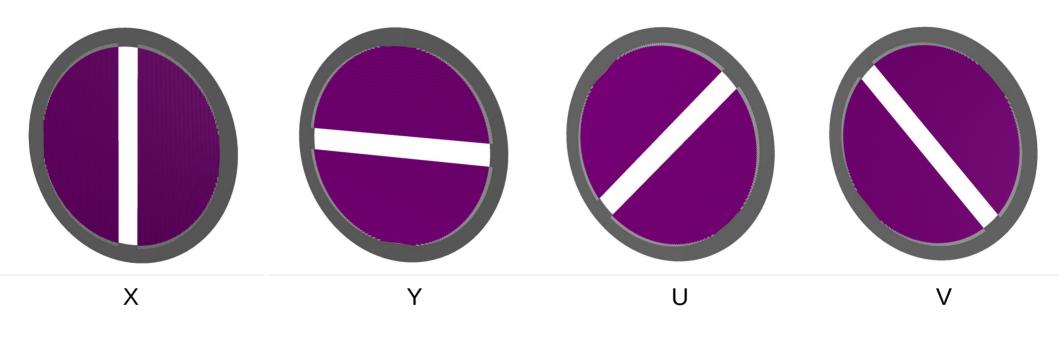
8 planes

Total length = 24 cm

One plane



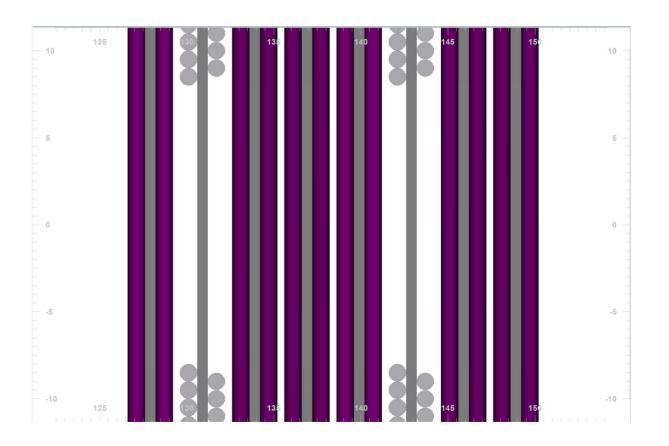
Orientation of planes



- Order of planes: X Y U V X Y U V
- (Was: X U Y V X U Y V)

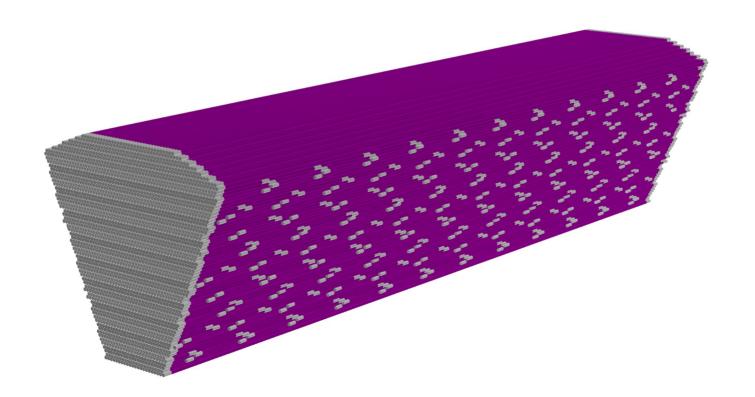
View in Z-Y projection





Changes to Straw Tracker Barrel

End plugs are also added to straws in barrel.



TODO

- Check how the changes in geometry affect acceptance, momentum resolution, etc.
- Commit to development branch

Thank you for your attention!