

Update of the straw tracker geometry description in SpdRoot

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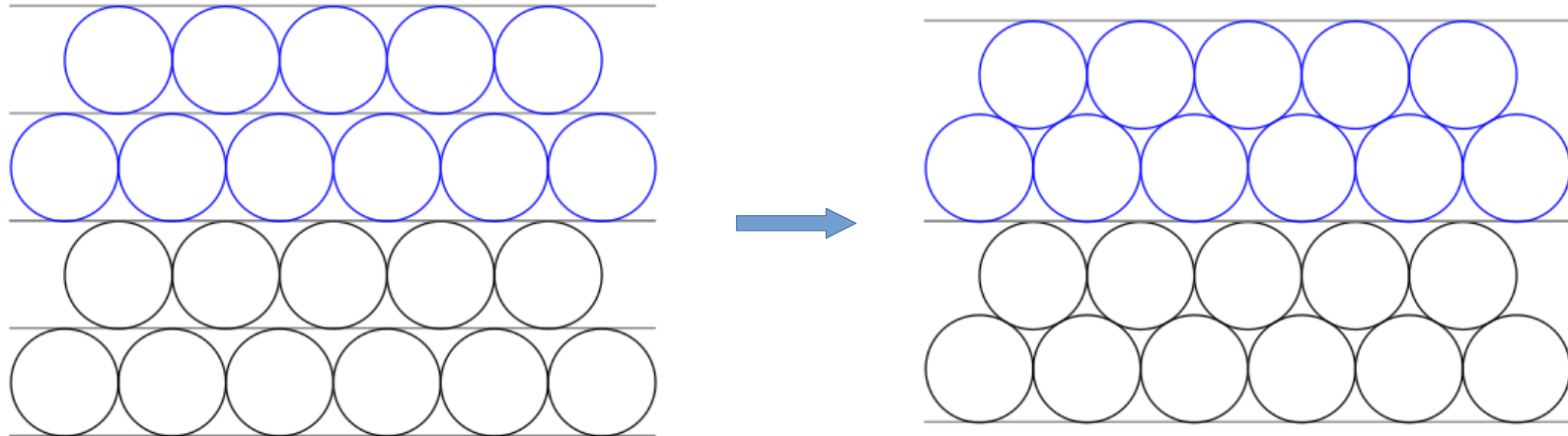
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Goal

- To synchronize geometry description of the straw tracker (barrel part) in the last version of TDR and in SpdRoot.

Single Layers → Double Layers

- The straw tracker (barrel part) consists of 8 modules, the modules consist of layers, the layers are made of straws.
- The *single layer* was the unit of geometry before ⇒ wrong distance between straws in the sublayers.
- Now the **double layer** is the unit of geometry.
- As a consequence, number of double layers changed slightly: 29 → **31**.



Other changes

- Removed two very obsolete options of TsB geometry (from the ancient times when we chose between toroidal and solenoidal geometry).
- Straw shell material and thickness:
kapton, 60 μm \rightarrow **PET, 36 μm** (TDR)
- Fixed error in Ar/CO₂ mixture description in `media.geo` (was 7:1 instead of **7:3**; also changed slightly density).
- Changed angles of straw inclination in u/v layers to $\pm 5^\circ$ (according to TDR). [Or make it 2° ? Or 3° ?]
- Changed the gap between the octants from 5 cm to **0.4 cm** [to be defined precisely later].

General view of the straw tracker

