### DCH geometry description

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## DCH geometry description

- GDML description of drift chamber geometry produced using python scripts
- Volume filled with homogenous gas+wires medium
- In the current configuration:
  - inner wall: 1mm thick carbon fiber layer
  - outer wall: two 1.5 mm thick carbon fiber layers
  - endcap: 5mm thick carbon fiber layer
  - BaBar-equivalent gas+wires medium

## Model I

#### Cylindrical inner/outer walls

Flat endcaps





## Model II

- Cylindrical inner/outer walls
- Spheric endplates



# Model III

- Cylindrical inner wall with conic ends
- Cylindrical outer wall
- Spheric endplates





### Model for background simulation

- Model I was used in 1<sup>st</sup> round of background simulation.
- Model II and III also available if needed. Modelization of active medium done using boolean solids