

Software for Stitching Vertex Detector

- Platform: CEPCSW
- Geometry
 - Ideal design
 - Cylinder at center (0,0,0): silicon + electronics + support
 - Optional: layer number, thickness, length, material
 - Real design
 - center
 - petal
 - dead area & mechanics
- Digitization
 - Fixed spatial resolution: CylinderDigiAlg for ideal layer ready, consider different center
 - Parametrized spatial resolution: investigate first
 - Full digitizer: dependent on design
- Reconstruction
 - Planar measurement → Cylinder measurement
 - Keep current reconstruction, test and optimization
 - Develop new reconstruction: ACTS etc.
- Layout performance
- Timeline estimation: adjust according to design

