Vertex CDR — status

- **4 Vertex Detector**
- 4.1 Performance Requirements and Detector Challenges

Z-pole?

- 4.2 Baseline Design
- 4.3 Detector Performance Studies
- 4.4 Beam-Induced Background in the Vertex Detector
- 4.5 Sensor Technology Options
- 4.6 Mechanics and Integration
- 4.7 Critical R&D
- 4.7.1 Current R&D Activities
- 4.7.2 Future R&D
- **8 Cost estimation?**
- 4.8 Summary References

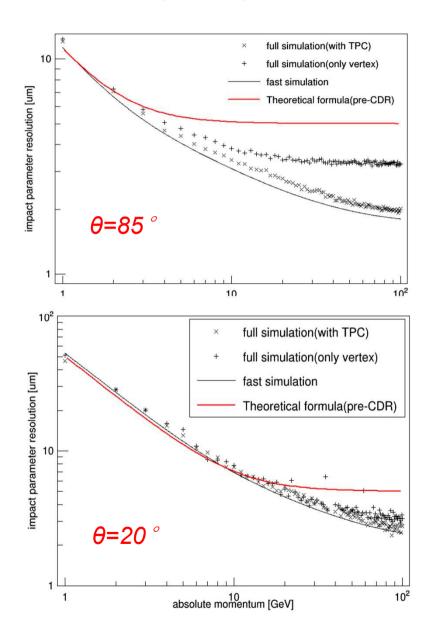
Yunpeng Lu

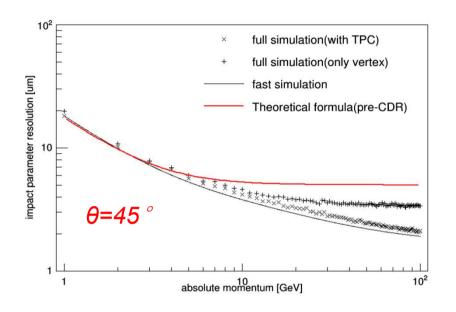
- CPS and SOI MPW runs, results
- pixel size shrinking, 3D connection...
- radiation tolerance

Zhigang Wu

- parameters already checked for both full and fast simulation
- VTX L2: σ_{sp} 2.8 \rightarrow 6 μ m
- B=3T?
- performance simulation done within one week
- background?

Impact parameter resolution — Zhigang Wu





- * Full simulation: CEPC_v1
- B=3.5T
- Beam-pipe X=0.14%X₀