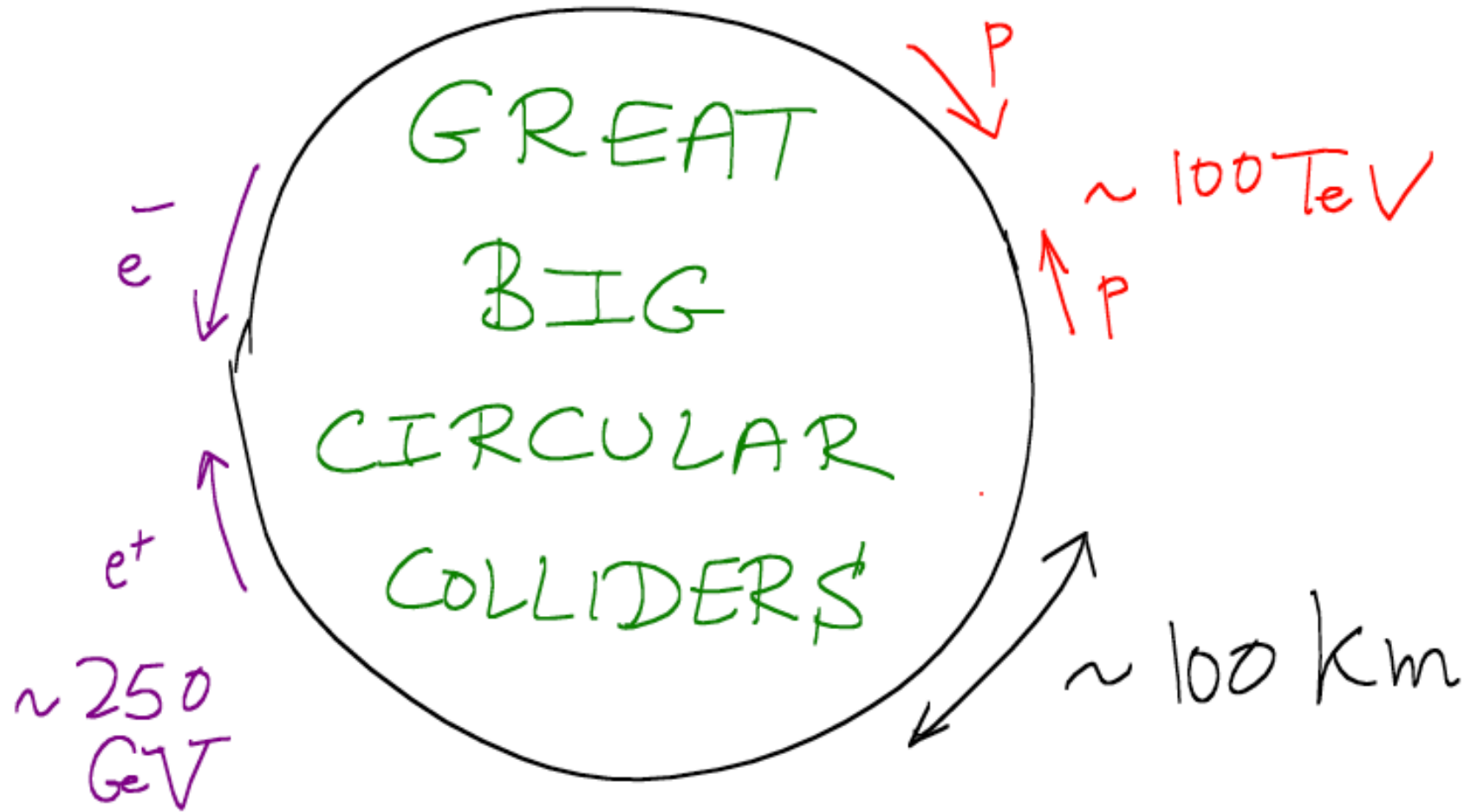




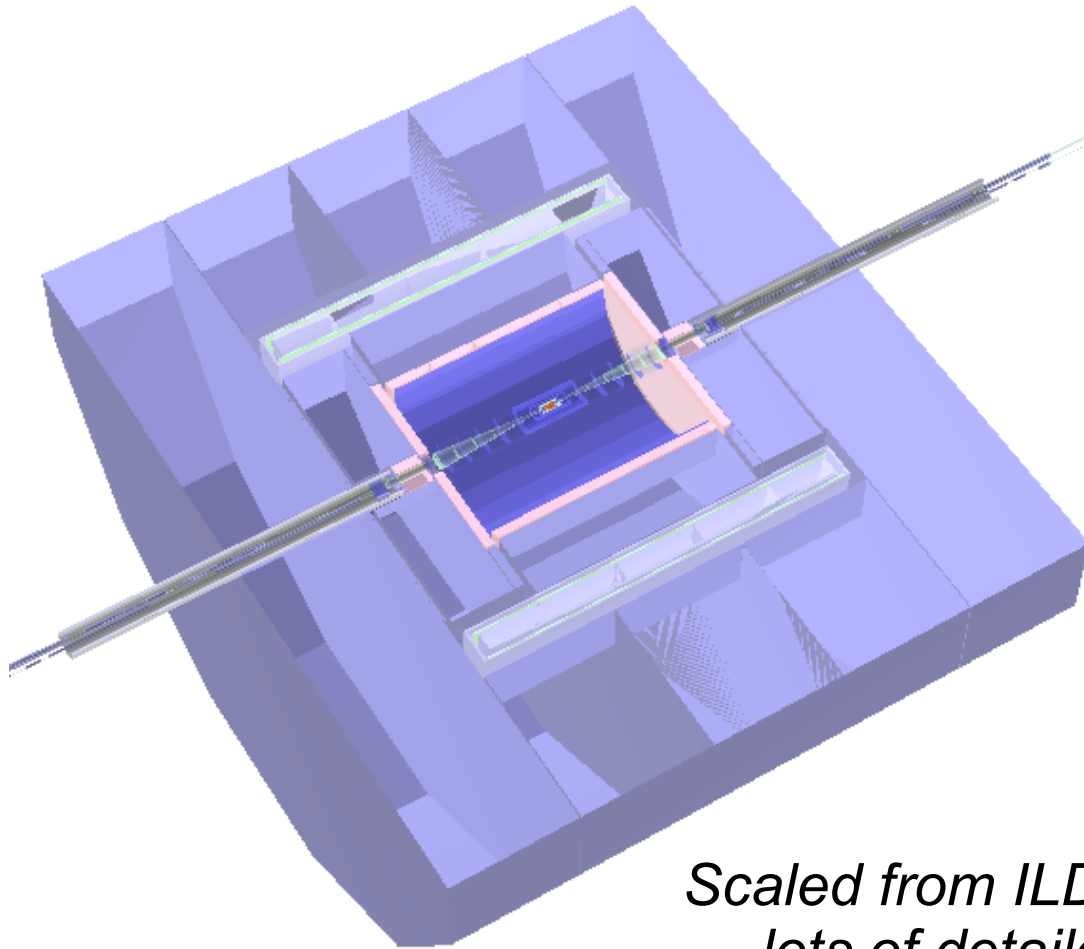
# Background, Motivation & Perspective

Manqi

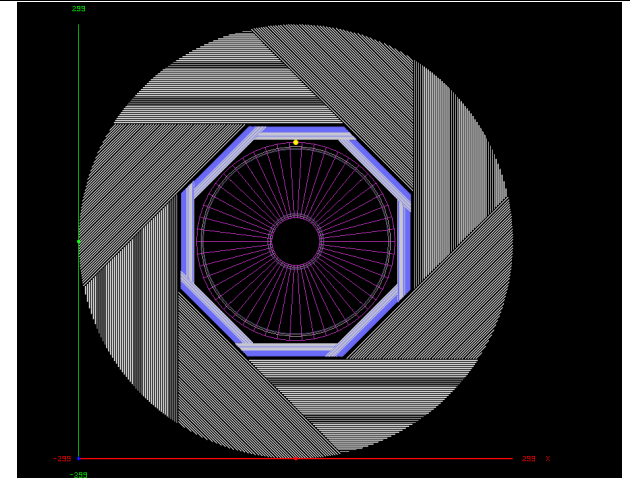
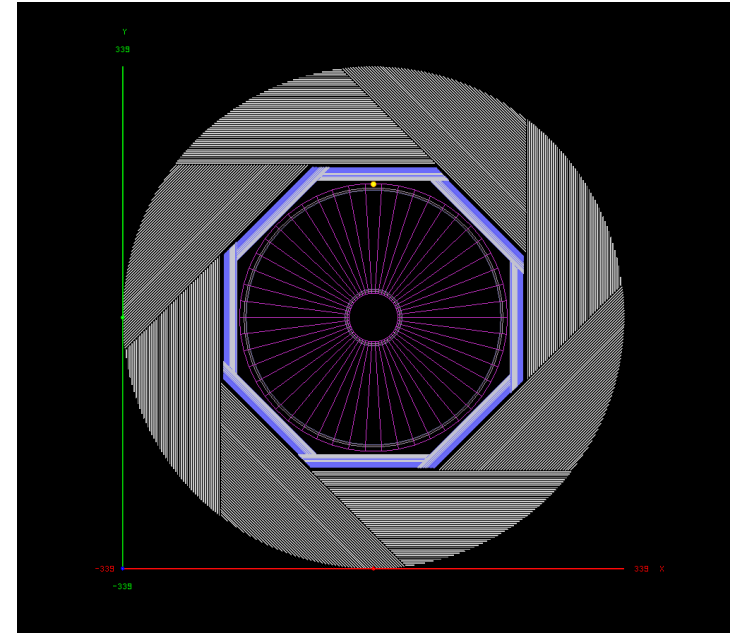


Precise measurement & Direct probe:  
Higgs, Z & W, SM, SUSY, Exotic...

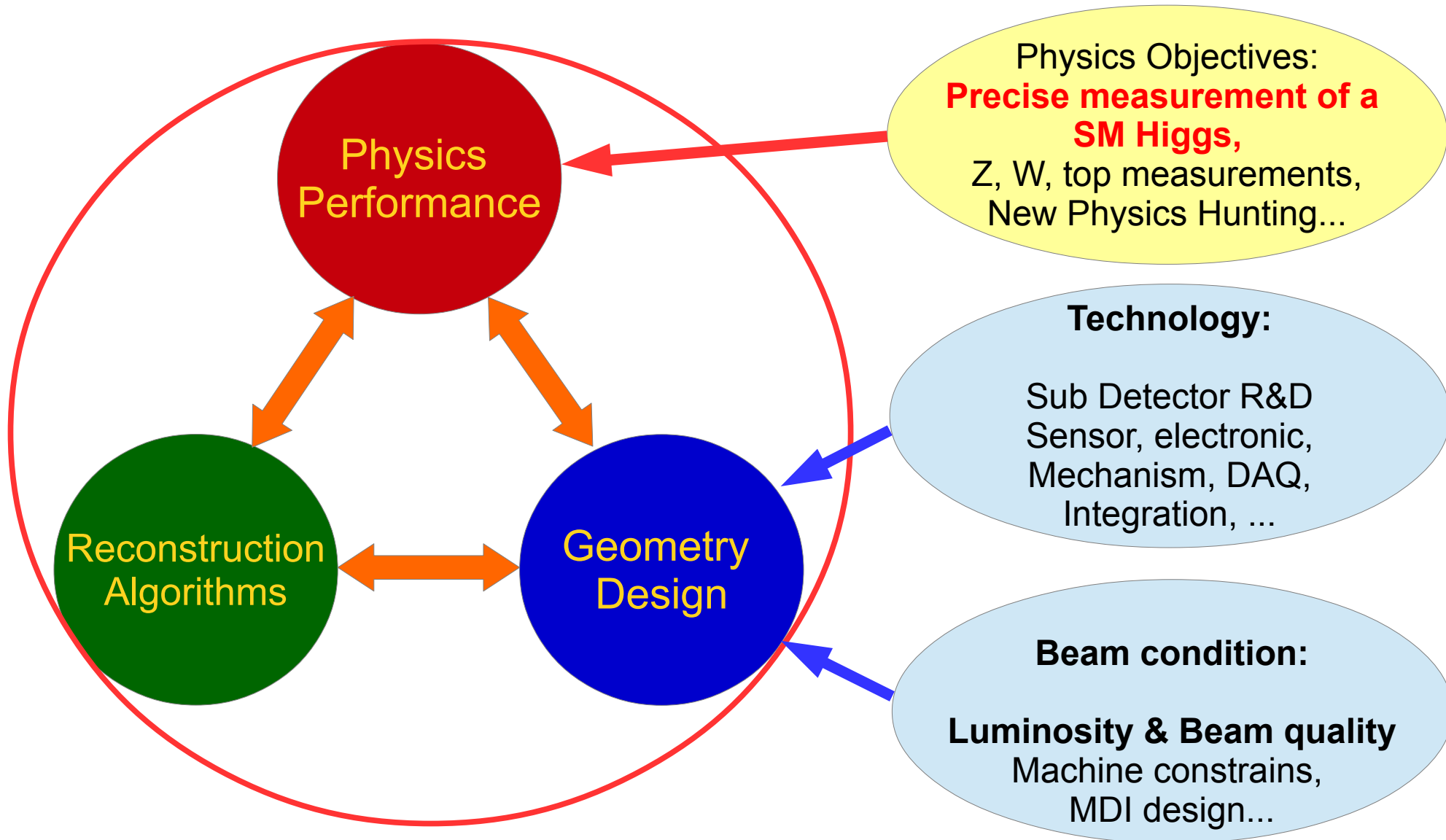
# Current CEPC detector: ILD\_v2



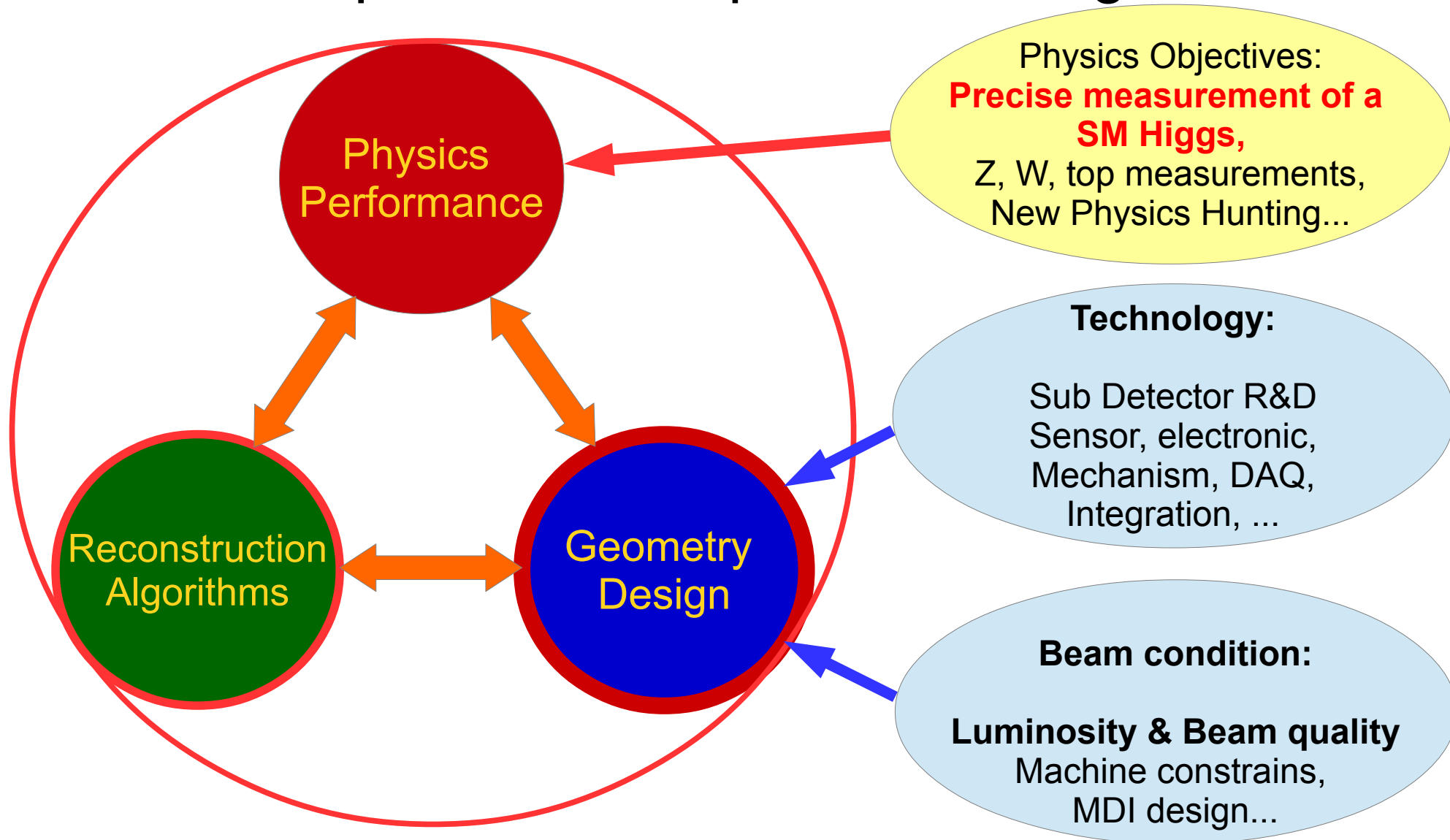
*Scaled from ILD; but  
lots of detailed  
design should follow*



# Detector design: Basic ingredients



# Dedicated Simulation & Reconstruction: Indispensable to optimized design



# Perspectives

- You will
  - Gain basic version on CEPC Physics, detector concerns & reference geometry;
  - Learn basic usage of CEPC software;
  - Learn Geant 4: usage, geometry editing & exercises
  - Understand the current ILC-CEPC Simulation framework, Mokka:
    - Architecture, Dependence, standards & data base
  - Lots of exercises
- You will be able to
  - **Edit sub-detector geometry to the source code level, and integrate into the Mokka framework**

# Discussion → Road Map

- Master the key technologies in current ILC Software
- Perspective of Future CEPC Software framework
  - Simulation
  - Reconstruction
- Task sharing & Cooperations



**Welcome & Enjoy!**