

CEPC ITK cost estimation

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CEPC Work Breakdown Structure (WBS)												
black	red	blue	brown	purple	pink	green	WBS Element Title	Type	Unit	Number	price (10,000 Y	Total Price (10,000 Yuan)
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7						
							TOTAL					
1							Project Management					
2							Accelerator Physics					
3							Collider (Ch 4)					
4							Booster (Ch 5)					
5							Linac, Damping Ring and Sources (Ch 6)					
6							Transport Lines					
7							Systems Common to Accelerators (Ch 7)					
8							Conventional Facilities (Ch 9)					
9							Gamma Ray Source (Appendix 5)					
10							Experiments					
10	1						Detector 1 (baseline option only)					
10	1	1					Machine Detector Interface and Luminosity Measurement					
10	1	1	1				Subsystem 1					
10	1	1	1	1			Sub-Subsystem 1					
10	1	1	1	1	2		Sub-Subsystem 1					
10	1	1	2				Subsystem 2					
10	1	1	2	1			Sub-Subsystem 1					
10	1	1	2	2			Sub-Subsystem 1					
10	1	1	3				Subsystem 3					
10	1	1	4				Subsystem 4					
10	1	2					Vertex detector					
10	1	2	1				Subsystem 1					
10	1	2	2				Subsystem 2					
10	1	2	3				Subsystem 3					
10	1	2	4				Subsystem 4					
10	1	3					Silicon trackers					
10	1	3	1				Inner silicon tracker					
10	1	3	2				Outer silicon tracker					
10	1	3	3				Subsystem 3					
10	1	3	4				Subsystem 4					

ITK cost breakup

- CMOS sensor
- Module (excluding common electronics)
 - Raw material: PCB, flex, support, glue, ...
 - Fabrication: bonding, assembly, ...
- Electronics (mass procurement by electronics group)
 - Chitu, Taotie, Kinwoo, ...
 - Optical cables
- Mechanics and cooling
 - Carbon fibre support
 - Cooling pipe
 - Truss material and fabrication
 - Connectors, flanges, ...