

Estimation of Cost

1.1		Chamber	10 ⁴ CNY	unit	3130.00
	1.1.1	End plate	405	2	810.00
	1.1.2	Outer frame structure	500.00	1	500.00
	1.1.3	Inner and outer cylinders	150.00	1	150.00
	1.1.4	Wire	710.00	+20% spare	710.00
	1.1.5	Feedthrough	530.00	+20% spare	530.00
	1.1.6	Wire test system	80	1	80
	1.1.7	Wiring tooling	350	1	350
1.2		Electronics			5170.00
	1.2.1	Readout Channel	0.17	27623*1.1 (10% backup)	5170.00
1.3		HV and Gas system			340.00
	1.3.1	High Voltage system	320.00	6HV crates, 50modules	320.00
	1.3.2	Gas system	120.00	1	120.00
total					8740

Components of Detector

- Endplate : $105*2$ (material) + $300*2$ (manufacturing)
- CF structure : 500(Outer frame structure) +150 (Inner and outer cylinders)
- Feedthrough : $265000*20$
- Wire: $4*165000 + 13*165000*3$
- HV system: $6*100000$ (crate) + $50* 30000$ (module) + 1100000 (fanout/cable)
- Gas: 120 (Flow meter + gas pipe)

Components of Electronics

Item	Unit	Unit cost (10k yuan)	Quantity	Total cost (10k yuan)	Comment
FEE Preamp	Board	0.24	2302	550	
FEE Digital Brd	Board	1.68	2302	3900	Mostly ADC
FEE Mix Cable	piece	0.12	2302	280	
BEE Brd	Board	2	72	144	Mostly FPGA
Total				4874	
Necessary R&D	Type	0	-	0	