TPC RESOURCES GUESSTIMATES

RS WP210 20141211

Yasuhiro at optimization meeting yesterday

Resource need in R&D phase

- Assumption in TDR validation WG
 - After approval of the ILC project, 4 years are necessary for the preparation to get ready for construction
- We can expect larger amount of budget in this preparation period
- We are requested to clarify budget and human resource needed in this period
 - A rule of thumb; 10 20% of construction cost/manpower
 - But we should try to estimate by ourselves
 - Estimate of each sub-detector will not be disclosed: ILD R&D cost as a whole
- What happens on detectors in this period
 - R&D
 - Proposal
 - Technology choice
 - Detailed (construction ready) design
 - Industrialization
 - TDR of sub-detectors

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TPC	Now	Y-4	Y-3	Y-2	Y-1	Y1	Y2
Timeline	R&D	R&D	R&D	R&D	R&D		
Budget							
Annual budget (MILCU)	0.5	0.6	0.6	0.6	0.6	1.1	1 3.59
FTE from external labs/univ							
Item							
Field cage		1	1	1	2	3	3
End plate		1	2	2	3	3	3 5
Modules		5	5	5	5	5	5 5
Electronics		5	5	5	5	5	5 5
Laser		2	2	2	2	2	2 2
Power supply		1	1	2	2	3	3
High voltage		1	1	1	1	2	2 2
Gas and Cooling		1	1	1	1	2	2 2
DAQ		1	1	1	1	2	2 2
Monitor		1	1	1	1	2	2 2
Software		2	2	2	2	3	3
Management		1	1	1	1	3	3
Total		22	23	24	26	35	3
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