

16/5/2010 14:34:00 PM

system	item	number	cost	responsible (?)	physics	
Tracking						700
PixelMM					all	420
	plane	12		Saclay		
	R/O		420	Saclay		
	HV etc			Saclay		
PixelGEM					all	0
SCIFI/BMS				Bonn HSKP/Erlangen/Warsaw	all	150
			150	Erlangen		
MM/DC				Saclay	all	
Si/GEMS				TUM	all	100
	wafers		100	TUM		
Straw				Freiburg/???	all	
MWPC				INFN To	all	
RW				INFN To	all	
MW1				JINR	all	
MW2				Protvino	all	
W45					all	30
	repair		30	CERN		
Calorimeters						1983
	ECAL0				GPD	992
	modules	248	372	JINR		
	AMPD	2232	60	Saclay		
			90	Warsaw WUT		

	temp. stab.	248	40	JINR		
	monitoring (LED)	2232	40	JINR		
	preamps	2232	30	Warsaw SINS/WU		
	housing	248	60	JINR		
	MSADCs 36x64ch & crates	2232	250	TUM		
	frame	1	50	CERN		
ECAL1 upgrade					GPD/ChPT	830
	Shashlik	600	130	BMBF		
			50	Mainz		
	Gams	1688		Protvino		
	PMs	1700	255	Protvino	exist	
	HV bases	1700	100	Freiburg		
	MSADCs	1712	90	Mainz		0.5
			30	Saclay		
			60	BMBF		
	Cables	1700	20	Mainz		0.5
			20	Saclay		
	monitoring extension	1800	75	Saclay		
ECAL1 (option 3)					GPD	61
	Shashlik	100	30	Saclay		
	PMs	100	15	Protvino	exist	
	HV bases	100	6	Freiburg		
	MSADCs	100	10	TUM		
ECAL2						50
	monitoring		50	Lisbon		
HCAL-1 modification					GPD	50
	modules		50	JINR		
RICH/CEDAR						1900
Rich-1 upgrade					GPD/unpol	1800
	ThGEM	12	1080	INFN		
			20	Prague		
	R/O	?	700	INFN		
CEDAR			Sc		ChPT	100

	?	100	Mainz		
RPD/LH				GPD	1065
					1065
	RD structure	150	Saclay		
	PMs	60	Saclay		
		30	Calcutta		
		30	Warsaw SINS/WU		
	Scint./light guides	210	Saclay		
		70	Mainz/Bonn PI		
	R/O	190	Freiburg		
	HV, crates,electronics	80	Saclay		
		50	Warsaw SINS/WU		
		20	Warsaw WUT		
	LH2 target	75	Saclay		
		75	CERN		
		25	Yamagata		
Absorber				DY	200
	hadron absorber	110	INFN		
		30	Lisbon		
	target shielding	60	CERN		
Pol. target				DY	430
	target holder	50	Bochum		
	target material	80	Bochum		
	cavity	30	Prague		
		20	Bochum		
	pump refurbishment	150	Yamagata		
	EIO	100	Yamagata		
DAQ/Trigger/DCS				all	535
Veto/matrices		100	Mainz/Bonn PI		100
DAQ upgrade					385
		150	TUM		
		75	Triest		

		75	Turin		
		25	Tel Aviv		
		60	Prague		
DCS					50
	upgrade	50	Lisbon		
Infrastructure				all	250
	additions/modifications	250	CERN		
Total					7063
HOST				all	500
	EHN2 air conditioning	500	CERN host		
	Shielding in EHN2	?	CERN host		
	He for PT and LH	?	CERN host		
	tapes	?	CERN host		
	computing	?	CERN host		
	CDR	?	CERN host		

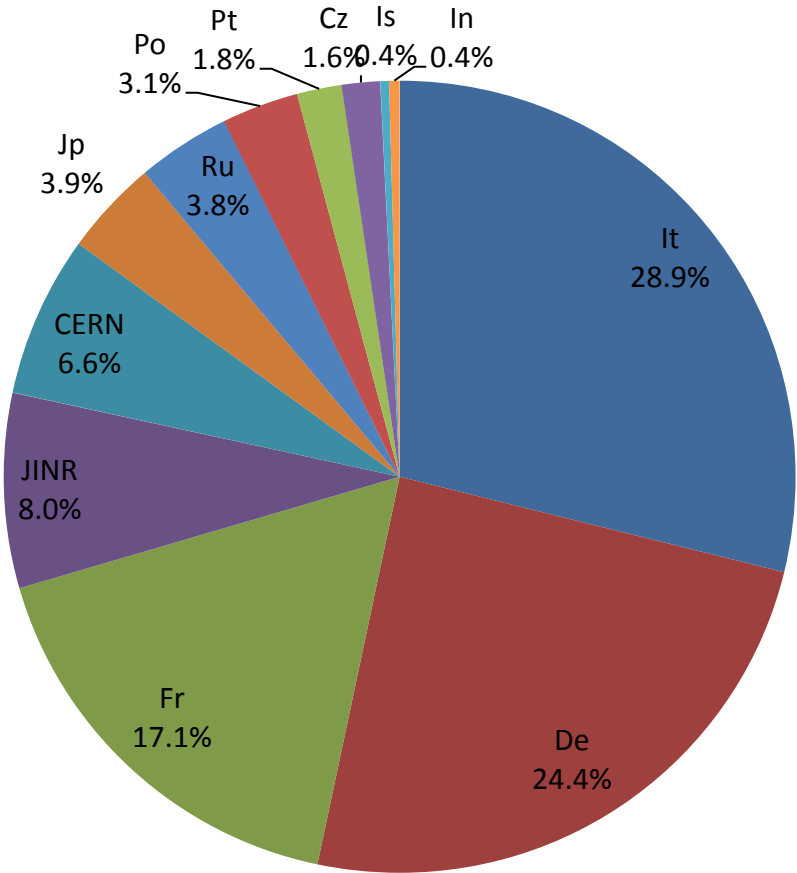
Per Institute

Saclay	1210	Fr
BMBF	190	De
Erlangen	150	De
Mainz	260	De
Mainz/Bonn PI	170	De
JINR	562	JINR
JINR/?	0	?
Protvino	270	Ru
ECAL1? de	0	DE
Prague	110	Cz
?	0	?
INFN	1890	It
Tel Aviv	25	Is
Lisbon	130	Pt
CERN	465	CERN
Bochum	150	De
Yamagata	275	Jp
Warsaw SINS/WU	110	Po
Warsaw WUT	110	Po
Freiburg	296	De
Calcutta	30	In
TUM	510	De
ECAL1? fr	0	Fr
Triest	75	It
Triest	75	It
7063		

Per Country

It	2040
De	1726
Fr	1210
JINR	562
CERN	465
Jp	275
Ru	270
Po	220
Pt	130
Cz	110
Is	25
In	30
?	0
7063	

Investment by country in per cent



RICH-0