

Frascati, June 6, 1995

Note: **ME-3**

**COORDINATES OF DAΦNE MAIN RINGS  
MAGNETIC ELEMENTS**

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The necessity of transferring information from the design group to the alignment team, avoiding misunderstandings and data losses, pushed the authors to prepare the annexed list, that defines, in agreement with the longitudinal coordinates used in the design, the input and output coordinates for each magnetic element in a reference system, centered in the machine center and oriented with the X axis passing through the two Interaction Points (IPs).

The list contains all the magnetic elements plus the RF cavity because the alignment operation will be independent for each of them. Up to now the list does not include all the objects that are rigidly connected to the vacuum chamber: this item will be considered composed by blocks, defined by the bellow positions and comprising groups of objects as a whole; a list of these blocks, analogous to the present one, will be prepared in the next future.

The first annexed drawing shows the axis of the magnetic elements for one of the two rings and its major dimensions. It coincides with the beam path everywhere except in the two Interaction Regions (IRs), which are common for both rings.

The second drawing shows the magnetic elements and RF cavities of both rings with their official names.

## DAΦNE

## Coordinate degli elementi magnetici

	coord. curv.	angolo	lung. mag.	ang. progr.	X	Y	
EL1	INIEZIONE	0.000	0.000	0.00	0.00	-16254.38	
	QUAEL101	1877.588	1877.588	0.00	1877.59	-16254.38	
		2177.588	300.000	0.00	2177.59	-16254.38	
	CHVEL101	2342.588	165.000	0.00	2342.59	-16254.38	
		2442.588	100.000	0.00	2442.59	-16254.38	
	QUAEL102	2627.588	185.000	0.00	2627.59	-16254.38	
		2927.588	300.000	0.00	2927.59	-16254.38	
	CHVEL102	4272.588	1345.000	0.00	4272.59	-16254.38	
		4372.588	100.000	0.00	4372.59	-16254.38	
	QUAEL103	4467.588	95.000	0.00	4467.59	-16254.38	
		4767.588	300.000	0.00	4767.59	-16254.38	
	QUAEL104	5547.588	780.000	0.00	5547.59	-16254.38	
		5847.588	300.000	0.00	5847.59	-16254.38	
	SXPEL101	5997.588	150.000	0.00	5997.59	-16254.38	
		6097.588	100.000	0.00	6097.59	-16254.38	
	CHVEL103	6633.588	536.000	0.00	6633.59	-16254.38	
		6833.588	200.000	0.00	6833.59	-16254.38	
	DHREL101	7197.588	364.000	0.00	7197.59	-16254.38	
		8407.588	49.50000	1210.000	49.50	8262.58	-15763.41
	QUAEL105	9007.588	600.000	49.50	8652.25	-15307.16	
		9307.588	300.000	49.50	8847.09	-15079.04	
	CHVEL104	9382.588	75.000	49.50	8895.80	-15022.01	
		9482.588	100.000	49.50	8960.74	-14945.97	
	SXPEL102	9607.588	125.000	49.50	9041.92	-14850.92	
		9757.588	150.000	49.50	9139.34	-14736.86	
	WGLEL101	9907.588	150.000	49.50	9236.76	-14622.80	
		11907.588	2000.000	49.50	10535.65	-13101.98	
	QUAEL106	12507.588	600.000	49.50	10925.32	-12645.74	
		12807.588	300.000	49.50	11120.16	-12417.62	
	CHVEL105	12897.588	90.000	49.50	11178.61	-12349.18	
		12997.588	100.000	49.50	11243.55	-12273.14	
	SXPEL103	13132.588	135.000	49.50	11331.23	-12170.49	
		13282.588	150.000	49.50	11428.64	-12056.43	
	QUAEL107	13407.588	125.000	49.50	11509.83	-11961.38	
		13707.588	300.000	49.50	11704.66	-11733.25	
	DHSEL102	14307.588	600.000	49.50	12094.33	-11277.01	
		15517.588	49.50000	1210.000	99.00	12412.65	-10148.32
	CHVEL106	15881.588	364.000	99.00	12355.71	-9788.80	
		16081.588	200.000	99.00	12324.42	-9591.26	
	QUAEL108	16317.588	236.000	99.00	12287.50	-9358.17	
		16617.588	300.000	99.00	12240.57	-9061.86	
	SXPEL104	16977.588	360.000	99.00	12184.26	-8706.30	
		17077.588	100.000	99.00	12168.61	-8607.53	
	QUAEL109	17197.588	120.000	99.00	12149.84	-8489.00	
		17497.588	300.000	99.00	12102.91	-8192.70	
	QUAEL110	17917.588	420.000	99.00	12037.21	-7777.87	
		18217.588	300.000	99.00	11990.28	-7481.56	
	DHCEL101	18358.588	141.000	99.00	11968.22	-7342.30	
		18686.588	328.000	99.00	11916.91	-7018.34	
	SPLI1001	19217.588	531.000	99.00	11833.84	-6493.87	
		20667.588	-8.74933	1450.000	90.25	11717.03	-5050.00

## DAΦNE

## Coordinate degli elementi magnetici

	coor. curv.	angolo	lung. mag.	ang. progr.	X	Y	
IR1	OFFSET	20667.588	-0.25067	0.000	90.00	11658.28	-5050.00
	CHVEI101	20777.588		110.000	90.00	11658.28	-4940.00
		21017.588		240.000	90.00	11658.28	-4700.00
	SOLI1001	21082.588		65.000	90.00	11658.28	-4635.00
		22232.588		1150.000	90.00	11658.28	-3485.00
	QUAI1001	23517.588		1285.000	90.00	11658.28	-2200.00
		23917.588		400.000	90.00	11658.28	-1800.00
	QUAI1002	24267.588		350.000	90.00	11658.28	-1450.00
		24667.588		400.000	90.00	11658.28	-1050.00
	QUAI1003	24967.588		300.000	90.00	11658.28	-750.00
		25267.588		300.000	90.00	11658.28	-450.00
	QUAI1004	25567.588		300.000	90.00	11658.28	-150.00
		25867.588		300.000	90.00	11658.28	150.00
	QUAI1005	26167.588		300.000	90.00	11658.28	450.00
		26467.588		300.000	90.00	11658.28	750.00
	QUAI1006	26767.588		300.000	90.00	11658.28	1050.00
		27167.588		400.000	90.00	11658.28	1450.00
	QUAI1007	27517.588		350.000	90.00	11658.28	1800.00
		27917.588		400.000	90.00	11658.28	2200.00
	SOLI1002	29202.588		1285.000	90.00	11658.28	3485.00
		30352.588		1150.000	90.00	11658.28	4635.00
	CHVEI102	30417.588		65.000	90.00	11658.28	4700.00
		30657.588		240.000	90.00	11658.28	4940.00
	OFFSET	30767.588	0.25067	110.000	90.25	11599.53	5050.00

## DAΦNE

## Coordinate degli elementi magnetici

	coor. curv.	angolo	lung. mag.	ang. progr.	X	Y
ES1	SPLI1002	30767.588	0.000	90.25	11599.53	5050.00
		32217.588	8.74933	1450.000	99.00	11482.72
DHCES101		32748.588	531.000	99.00	11399.65	7018.34
		33076.588	328.000	99.00	11348.34	7342.30
QUAES101		33217.588	141.000	99.00	11326.28	7481.56
		33517.588	300.000	99.00	11279.35	7777.87
SX PES101		33642.588	125.000	99.00	11259.80	7901.33
		33792.588	150.000	99.00	11236.33	8049.48
QUAES102		33917.588	125.000	99.00	11216.78	8172.94
		34217.588	300.000	99.00	11169.85	8469.25
QUAES103		34817.588	600.000	99.00	11075.99	9061.86
		35117.588	300.000	99.00	11029.06	9358.17
CHVES101		35353.588	236.000	99.00	10992.14	9591.26
		35553.588	200.000	99.00	10960.85	9788.80
DHSES101		35917.588	364.000	99.00	10903.91	10148.32
		36907.588	40.50000	990.000	139.50	10430.18
QUAES104		37507.588	600.000	139.50	9973.94	11383.89
		37807.588	300.000	139.50	9745.82	11578.72
SX PES102		37932.588	125.000	139.50	9650.77	11659.91
		38082.588	150.000	139.50	9536.70	11757.32
CHVES102		38217.588	135.000	139.50	9434.05	11845.00
		38317.588	100.000	139.50	9358.01	11909.94
QUAES105		38407.588	90.000	139.50	9289.57	11968.39
		38707.588	300.000	139.50	9061.45	12163.23
WGLES101		39307.588	600.000	139.50	8605.21	12552.90
		41307.588	2000.000	139.50	7084.40	13851.79
SX PES103		41457.588	150.000	139.50	6970.33	13949.21
		41607.588	150.000	139.50	6856.27	14046.63
CHVES103		41732.588	125.000	139.50	6761.22	14127.81
		41832.588	100.000	139.50	6685.18	14192.75
QUAES106		41907.588	75.000	139.50	6628.15	14241.46
		42207.588	300.000	139.50	6400.03	14436.30
DHRES102		42807.588	600.000	139.50	5943.79	14825.96
		43797.588	40.50000	990.000	180.00	5034.19
CHVES104		44161.588	364.000	180.00	4670.19	15161.53
		44361.588	200.000	180.00	4470.19	15161.53
QUAES107		44547.588	186.000	180.00	4284.19	15161.53
		44847.588	300.000	180.00	3984.19	15161.53
SX PES104		45012.588	165.000	180.00	3819.19	15161.53
		45112.588	100.000	180.00	3719.19	15161.53
QUAES108		45247.588	135.000	180.00	3584.19	15161.53
		45547.588	300.000	180.00	3284.19	15161.53
RFCES101		45622.588	75.000	180.00	3209.19	15161.53
		47462.588	1840.000	180.00	1369.19	15161.53
CHVES105		47567.588	105.000	180.00	1264.19	15161.53
		47667.588	100.000	180.00	1164.19	15161.53
QUAES109		47767.588	100.000	180.00	1064.19	15161.53
		48067.588	300.000	180.00	764.19	15161.53
CHVES106		48481.781	414.193	180.00	350.00	15161.53
		48581.781	100.000	180.00	250.00	15161.53
QUAES110		48681.781	100.000	180.00	150.00	15161.53
		48981.781	300.000	180.00	-150.00	15161.53

## DAΦNE

## Coordinate degli elementi magnetici

	coor. curv.	angolo	lung. mag.	ang. progr.	X	Y
ES2	QUAES201	49595.974	614.193	180.00	-764.19	15161.53
		49895.974	300.000	180.00	-1064.19	15161.53
	CHVES201	51915.974	2020.000	180.00	-3084.19	15161.53
		52015.974	100.000	180.00	-3184.19	15161.53
	QUAES202	52115.974	100.000	180.00	-3284.19	15161.53
		52415.974	300.000	180.00	-3584.19	15161.53
	SXPES201	52550.974	135.000	180.00	-3719.19	15161.53
		52650.974	100.000	180.00	-3819.19	15161.53
	QUAES203	52815.974	165.000	180.00	-3984.19	15161.53
		53115.974	300.000	180.00	-4284.19	15161.53
	CHVES202	53301.974	186.000	180.00	-4470.19	15161.53
		53501.974	200.000	180.00	-4670.19	15161.53
	DHRES201	53865.974	364.000	180.00	-5034.19	15161.53
		54855.974	40.50000	990.000	220.50	-5943.79
	QUAES204	55455.974	600.000	220.50	-6400.03	14436.30
		55755.974	300.000	220.50	-6628.15	14241.46
	CHVES203	55830.974	75.000	220.50	-6685.18	14192.75
		55930.974	100.000	220.50	-6761.22	14127.81
	SXPES202	56055.974	125.000	220.50	-6856.27	14046.63
		56205.974	150.000	220.50	-6970.33	13949.21
	WGLES201	56355.974	150.000	220.50	-7084.39	13851.79
		58355.974	2000.000	220.50	-8605.21	12552.90
	QUAES205	58955.974	600.000	220.50	-9061.45	12163.23
		59255.974	300.000	220.50	-9289.57	11968.39
	CHVES204	59345.974	90.000	220.50	-9358.01	11909.94
		59445.974	100.000	220.50	-9434.05	11845.00
	SXPES203	59580.974	135.000	220.50	-9536.70	11757.32
		59730.974	150.000	220.50	-9650.76	11659.91
	QUAES206	59855.974	125.000	220.50	-9745.82	11578.72
		60155.974	300.000	220.50	-9973.94	11383.89
	DHSES202	60755.974	600.000	220.50	-10430.18	10994.22
		61745.974	40.50000	990.000	261.00	-10903.91
	CHVES205	62109.974	364.000	261.00	-10960.85	9788.80
		62309.974	200.000	261.00	-10992.14	9591.26
	QUAES207	62545.974	236.000	261.00	-11029.06	9358.17
		62845.974	300.000	261.00	-11075.99	9061.86
	QUAES208	63445.974	600.000	261.00	-11169.85	8469.25
		63745.974	300.000	261.00	-11216.78	8172.94
	SXPES204	63870.974	125.000	261.00	-11236.33	8049.48
		64020.974	150.000	261.00	-11259.80	7901.33
	QUAES209	64145.974	125.000	261.00	-11279.35	7777.87
		64445.974	300.000	261.00	-11326.28	7481.56
	DHCES201	64586.974	141.000	261.00	-11348.34	7342.30
		64914.974	328.000	261.00	-11399.65	7018.34
	SPLI2001	65445.974	531.000	261.00	-11482.72	6493.87
		66895.974	8.74933	1450.000	269.75	-11599.53

## DADNE

Coordinate degli elementi magnetici

	coor. curv.	angolo	lung. mag.	ang. progr.	X	Y
IR2	OFFSET	66895.974	0.25067	0.000	270.00	-11658.28 5050.00
	CHVEI201	67005.974		110.000	270.00	-11658.28 4940.00
		67245.974		240.000	270.00	-11658.28 4700.00
	SOLI2001	67310.974		65.000	270.00	-11658.28 4635.00
		68460.974		1150.000	270.00	-11658.28 3485.00
	QUAI2001	69745.974		1285.000	270.00	-11658.28 2200.00
		70145.974		400.000	270.00	-11658.28 1800.00
	QUAI2002	70495.974		350.000	270.00	-11658.28 1450.00
		70895.974		400.000	270.00	-11658.28 1050.00
	QUAI2003	71195.974		300.000	270.00	-11658.28 750.00
		71495.974		300.000	270.00	-11658.28 450.00
	QUAI2004	71795.974		300.000	270.00	-11658.28 150.00
		72095.974		300.000	270.00	-11658.28 -150.00
	QUAI2005	72395.974		300.000	270.00	-11658.28 -450.00
		72695.974		300.000	270.00	-11658.28 -750.00
	QUAI2006	72995.974		300.000	270.00	-11658.28 -1050.00
		73395.974		400.000	270.00	-11658.28 -1450.00
	QUAI2007	73745.974		350.000	270.00	-11658.28 -1800.00
		74145.974		400.000	270.00	-11658.28 -2200.00
	SOLI2002	75430.974		1285.000	270.00	-11658.28 -3485.00
		76580.974		1150.000	270.00	-11658.28 -4635.00
	CHVEI202	76645.974		65.000	270.00	-11658.28 -4700.00
		76885.974		240.000	270.00	-11658.28 -4940.00
	OFFSET	76995.974	-0.25067	110.000	269.75	-11717.03 -5050.00

## DAΦNE

## Coordinate degli elementi magnetici

	coor. curv.	angolo	lung. mag.	ang. progr.	X	Y	
EL2	SPLI2002	76995.974	0.000	269.75	-11717.03	-5050.00	
		78445.974	-8.74933	1450.000	261.00	-11833.84	-6493.87
	DHCEL201	78976.974	531.000	261.00	-11916.91	-7018.34	
		79304.974	328.000	261.00	-11968.22	-7342.30	
	QUAEL201	79445.974	141.000	261.00	-11990.28	-7481.56	
		79745.974	300.000	261.00	-12037.21	-7777.87	
	QUAEL202	80165.974	420.000	261.00	-12102.91	-8192.70	
		80465.974	300.000	261.00	-12149.84	-8489.00	
	SXPEL201	80585.974	120.000	261.00	-12168.61	-8607.53	
		80685.974	100.000	261.00	-12184.26	-8706.30	
	QUAEL203	81045.974	360.000	261.00	-12240.57	-9061.86	
		81345.974	300.000	261.00	-12287.50	-9358.17	
	CHVEL201	81581.974	236.000	261.00	-12324.42	-9591.26	
		81781.974	200.000	261.00	-12355.71	-9788.80	
	DHSEL201	82145.974	364.000	261.00	-12412.65	-10148.32	
		83355.974	49.50000	1210.000	310.50	-12094.33	-11277.01
	QUAEL204	83955.974	600.000	310.50	-11704.66	-11733.25	
		84255.974	300.000	310.50	-11509.82	-11961.38	
	SXPEL202	84380.974	125.000	310.50	-11428.64	-12056.43	
		84530.974	150.000	310.50	-11331.23	-12170.49	
	CHVEL202	84665.974	135.000	310.50	-11243.55	-12273.14	
		84765.974	100.000	310.50	-11178.61	-12349.18	
	QUAEL205	84855.974	90.000	310.50	-11120.16	-12417.62	
		85155.974	300.000	310.50	-10925.32	-12645.74	
	WGLEL201	85755.974	600.000	310.50	-10535.65	-13101.98	
		87755.974	2000.000	310.50	-9236.76	-14622.80	
	SXPEL203	87905.974	150.000	310.50	-9139.34	-14736.86	
		88055.974	150.000	310.50	-9041.92	-14850.92	
	CHVEL203	88180.974	125.000	310.50	-8960.74	-14945.97	
		88280.974	100.000	310.50	-8895.80	-15022.01	
	QUAEL206	88355.974	75.000	310.50	-8847.09	-15079.04	
		88655.974	300.000	310.50	-8652.25	-15307.16	
	DHREL202	89255.974	600.000	310.50	-8262.58	-15763.41	
		90465.974	49.50000	1210.000	360.00	-7197.59	-16254.38
	CHVEL204	90829.974	364.000	360.00	-6833.59	-16254.38	
		91029.974	200.000	360.00	-6633.59	-16254.38	
	SXPEL204	91565.974	536.000	360.00	-6097.59	-16254.38	
		91665.974	100.000	360.00	-5997.59	-16254.38	
	QUAEL207	91815.974	150.000	360.00	-5847.59	-16254.38	
		92115.974	300.000	360.00	-5547.59	-16254.38	
	QUAEL208	92895.974	780.000	360.00	-4767.59	-16254.38	
		93195.974	300.000	360.00	-4467.59	-16254.38	
	CHVEL205	93290.974	95.000	360.00	-4372.59	-16254.38	
		93390.974	100.000	360.00	-4272.59	-16254.38	
	QUAEL209	94735.974	1345.000	360.00	-2927.59	-16254.38	
		95035.974	300.000	360.00	-2627.59	-16254.38	
	CHVEL206	95220.974	185.000	360.00	-2442.59	-16254.38	
		95320.974	100.000	360.00	-2342.59	-16254.38	
	QUAEL210	95485.974	165.000	360.00	-2177.59	-16254.38	
		95785.974	300.000	360.00	-1877.59	-16254.38	
	INIEZIONE	97663.562	1877.588	360.00	0.00	-16254.38	

## DAΦNE

## Coordinate degli elementi magnetici

	coor. curv.	angolo	lung. mag.	ang. progr.	X	Y	
PL1	INEIZIONE	0.000	0.000	0.00	0.00	16254.38	
	QUAPL101	1877.588	1877.588	0.00	1877.59	16254.38	
		2177.588	300.000	0.00	2177.59	16254.38	
	CHVPL101	2342.588	165.000	0.00	2342.59	16254.38	
		2442.588	100.000	0.00	2442.59	16254.38	
	QUAPL102	2627.588	185.000	0.00	2627.59	16254.38	
		2927.588	300.000	0.00	2927.59	16254.38	
	CHVPL102	4272.588	1345.000	0.00	4272.59	16254.38	
		4372.588	100.000	0.00	4372.59	16254.38	
	QUAPL103	4467.588	95.000	0.00	4467.59	16254.38	
		4767.588	300.000	0.00	4767.59	16254.38	
	QUAPL104	5547.588	780.000	0.00	5547.59	16254.38	
		5847.588	300.000	0.00	5847.59	16254.38	
	SXPPL101	5997.588	150.000	0.00	5997.59	16254.38	
		6097.588	100.000	0.00	6097.59	16254.38	
	CHVPL103	6633.588	536.000	0.00	6633.59	16254.38	
		6833.588	200.000	0.00	6833.59	16254.38	
	DHRPL101	7197.588	364.000	0.00	7197.59	16254.38	
		8407.588	49.50000	1210.000	49.50	8262.58	15763.41
	QUAPL105	9007.588	600.000	49.50	8652.25	15307.16	
		9307.588	300.000	49.50	8847.09	15079.04	
	CHVPL104	9382.588	75.000	49.50	8895.80	15022.01	
		9482.588	100.000	49.50	8960.74	14945.97	
	SXPPL102	9607.588	125.000	49.50	9041.92	14850.92	
		9757.588	150.000	49.50	9139.34	14736.86	
	WGLPL101	9907.588	150.000	49.50	9236.76	14622.80	
		11907.588	2000.000	49.50	10535.65	13101.98	
	QUAPL106	12507.588	600.000	49.50	10925.32	12645.74	
		12807.588	300.000	49.50	11120.16	12417.62	
	CHVPL105	12897.588	90.000	49.50	11178.61	12349.18	
		12997.588	100.000	49.50	11243.55	12273.14	
	SXPPL103	13132.588	135.000	49.50	11331.23	12170.49	
		13282.588	150.000	49.50	11428.64	12056.43	
	QUAPL107	13407.588	125.000	49.50	11509.83	11961.38	
		13707.588	300.000	49.50	11704.66	11733.25	
	DHSPL102	14307.588	600.000	49.50	12094.33	11277.01	
		15517.588	49.50000	1210.000	99.00	12412.65	10148.32
	CHVPL106	15881.588	364.000	99.00	12355.71	9788.80	
		16081.588	200.000	99.00	12324.42	9591.26	
	QUAPL108	16317.588	236.000	99.00	12287.50	9358.17	
		16617.588	300.000	99.00	12240.57	9061.86	
	SXPPL104	16977.588	360.000	99.00	12184.26	8706.30	
		17077.588	100.000	99.00	12168.61	8607.53	
	QUAPL109	17197.588	120.000	99.00	12149.84	8489.00	
		17497.588	300.000	99.00	12102.91	8192.70	
	QUAPL110	17917.588	420.000	99.00	12037.21	7777.87	
		18217.588	300.000	99.00	11990.28	7481.56	
	DHCPL101	18358.588	141.000	99.00	11968.22	7342.30	
		18686.588	328.000	99.00	11916.91	7018.34	
	SPL1002	19217.588	531.000	99.00	11833.84	6493.87	
		20667.588	-8.74933	1450.000	90.25	11717.03	5050.00

## DAΦNE

Coordinate degli elementi magnetici

	coor. curv.	angolo	lung. mag.	ang. progr.	X	Y	
IR1	OFFSET	20667.588	-0.25067	0.000	90.00	11658.28	5050.00
	CHVPI102	20777.588		110.000	90.00	11658.28	4940.00
		21017.588		240.000	90.00	11658.28	4700.00
	SOLI1002	21082.588		65.000	90.00	11658.28	4635.00
		22232.588		1150.000	90.00	11658.28	3485.00
	QUAI1007	23517.588		1285.000	90.00	11658.28	2200.00
		23917.588		400.000	90.00	11658.28	1800.00
	QUAI1006	24267.588		350.000	90.00	11658.28	1450.00
		24667.588		400.000	90.00	11658.28	1050.00
	QUAI1005	24967.588		300.000	90.00	11658.28	750.00
		25267.588		300.000	90.00	11658.28	450.00
	QUAI1004	25567.588		300.000	90.00	11658.28	150.00
		25867.588		300.000	90.00	11658.28	-150.00
	QUAI1003	26167.588		300.000	90.00	11658.28	-450.00
		26467.588		300.000	90.00	11658.28	-750.00
	QUAI1002	26767.588		300.000	90.00	11658.28	-1050.00
		27167.588		400.000	90.00	11658.28	-1450.00
	QUAI1001	27517.588		350.000	90.00	11658.28	-1800.00
		27917.588		400.000	90.00	11658.28	-2200.00
	SOLI1001	29202.588		1285.000	90.00	11658.28	-3485.00
		30352.588		1150.000	90.00	11658.28	-4635.00
	CHVPI101	30417.588		65.000	90.00	11658.28	-4700.00
		30657.588		240.000	90.00	11658.28	-4940.00
	OFFSET	30767.588	0.25067	110.000	90.25	11599.53	-5050.00

## DAΦNE

## Coordinate degli elementi magnetici

	coor. curv.	angolo	lung. mag.	ang. progr.	X	Y	
PS1	SPLI1001	30767.588	0.000	90.25	11599.53	-5050.00	
		32217.588	8.74933	1450.000	99.00	11482.72	-6493.87
	DHCPS101	32748.588	531.000	99.00	11399.65	-7018.34	
		33076.588	328.000	99.00	11348.34	-7342.30	
	QUAPS101	33217.588	141.000	99.00	11326.28	-7481.56	
		33517.588	300.000	99.00	11279.35	-7777.87	
	SXPPS101	33642.588	125.000	99.00	11259.80	-7901.33	
		33792.588	150.000	99.00	11236.33	-8049.48	
	QUAPS102	33917.588	125.000	99.00	11216.78	-8172.94	
		34217.588	300.000	99.00	11169.85	-8469.25	
	QUAPS103	34817.588	600.000	99.00	11075.99	-9061.86	
		35117.588	300.000	99.00	11029.06	-9358.17	
	CHVPS101	35353.588	236.000	99.00	10992.14	-9591.26	
		35553.588	200.000	99.00	10960.85	-9788.80	
	DHSPS101	35917.588	364.000	99.00	10903.91	-10148.32	
		36907.588	40.50000	990.000	139.50	10430.18	-10994.22
	QUAPS104	37507.588	600.000	139.50	9973.94	-11383.89	
		37807.588	300.000	139.50	9745.82	-11578.72	
	SXPPS102	37932.588	125.000	139.50	9650.77	-11659.91	
		38082.588	150.000	139.50	9536.70	-11757.32	
	CHVPS102	38217.588	135.000	139.50	9434.05	-11845.00	
		38317.588	100.000	139.50	9358.01	-11909.94	
	QUAPS105	38407.588	90.000	139.50	9289.57	-11968.39	
		38707.588	300.000	139.50	9061.45	-12163.23	
	WGLPS101	39307.588	600.000	139.50	8605.21	-12552.90	
		41307.588	2000.000	139.50	7084.40	-13851.79	
	SXPPS103	41457.588	150.000	139.50	6970.33	-13949.21	
		41607.588	150.000	139.50	6856.27	-14046.63	
	CHVPS103	41732.588	125.000	139.50	6761.22	-14127.81	
		41832.588	100.000	139.50	6685.18	-14192.75	
	QUAPS106	41907.588	75.000	139.50	6628.15	-14241.46	
		42207.588	300.000	139.50	6400.03	-14436.30	
	DHRPS102	42807.588	600.000	139.50	5943.79	-14825.96	
		43797.588	40.50000	990.000	180.00	5034.19	-15161.53
	CHVPS104	44161.588	364.000	180.00	4670.19	-15161.53	
		44361.588	200.000	180.00	4470.19	-15161.53	
	QUAPS107	44547.588	186.000	180.00	4284.19	-15161.53	
		44847.588	300.000	180.00	3984.19	-15161.53	
	SXPPS104	45012.588	165.000	180.00	3819.19	-15161.53	
		45112.588	100.000	180.00	3719.19	-15161.53	
	QUAPS108	45247.588	135.000	180.00	3584.19	-15161.53	
		45547.588	300.000	180.00	3284.19	-15161.53	
	RFCPS101	45622.588	75.000	180.00	3209.19	-15161.53	
		47462.588	1840.000	180.00	1369.19	-15161.53	
	CHVPS105	47567.588	105.000	180.00	1264.19	-15161.53	
		47667.588	100.000	180.00	1164.19	-15161.53	
	QUAPS109	47767.588	100.000	180.00	1064.19	-15161.53	
		48067.588	300.000	180.00	764.19	-15161.53	
	CHVPS106	48481.781	414.193	180.00	350.00	-15161.53	
		48581.781	100.000	180.00	250.00	-15161.53	
	QUAPS110	48681.781	100.000	180.00	150.00	-15161.53	
		48981.781	300.000	180.00	-150.00	-15161.53	

## DAΦNE

## Coordinate degli elementi magnetici

	coor. curv.	angolo	lung. mag.	ang. progr.	X	Y
PS2	QUAPS201	49595.974	614.193	180.00	-764.19	-15161.53
		49895.974	300.000	180.00	-1064.19	-15161.53
	CHVPS201	51915.974	2020.000	180.00	-3084.19	-15161.53
		52015.974	100.000	180.00	-3184.19	-15161.53
	QUAPS202	52115.974	100.000	180.00	-3284.19	-15161.53
		52415.974	300.000	180.00	-3584.19	-15161.53
	SXPPS201	52550.974	135.000	180.00	-3719.19	-15161.53
		52650.974	100.000	180.00	-3819.19	-15161.53
	QUAPS203	52815.974	165.000	180.00	-3984.19	-15161.53
		53115.974	300.000	180.00	-4284.19	-15161.53
	CHVPS202	53301.974	186.000	180.00	-4470.19	-15161.53
		53501.974	200.000	180.00	-4670.19	-15161.53
	DHRPS201	53865.974	364.000	180.00	-5034.19	-15161.53
		54855.974	40.50000	990.000	220.50	-5943.79
	QUAPS204	55455.974	600.000	220.50	-6400.03	-14436.30
		55755.974	300.000	220.50	-6628.15	-14241.46
	CHVPS203	55830.974	75.000	220.50	-6685.18	-14192.75
		55930.974	100.000	220.50	-6761.22	-14127.81
	SXPPS202	56055.974	125.000	220.50	-6856.27	-14046.63
		56205.974	150.000	220.50	-6970.33	-13949.21
	WGLPS201	56355.974	150.000	220.50	-7084.39	-13851.79
		58355.974	2000.000	220.50	-8605.21	-12552.90
	QUAPS205	58955.974	600.000	220.50	-9061.45	-12163.23
		59255.974	300.000	220.50	-9289.57	-11968.39
	CHVPS204	59345.974	90.000	220.50	-9358.01	-11909.94
		59445.974	100.000	220.50	-9434.05	-11845.00
	SXPPS203	59580.974	135.000	220.50	-9536.70	-11757.32
		59730.974	150.000	220.50	-9650.76	-11659.91
	QUAPS206	59855.974	125.000	220.50	-9745.82	-11578.72
		60155.974	300.000	220.50	-9973.94	-11383.89
	DHSPS202	60755.974	600.000	220.50	-10430.18	-10994.22
		61745.974	40.50000	990.000	261.00	-10903.91
	CHVPS205	62109.974	364.000	261.00	-10960.85	-9788.80
		62309.974	200.000	261.00	-10992.14	-9591.26
	QUAPS207	62545.974	236.000	261.00	-11029.06	-9358.17
		62845.974	300.000	261.00	-11075.99	-9061.86
	QUAPS208	63445.974	600.000	261.00	-11169.85	-8469.25
		63745.974	300.000	261.00	-11216.78	-8172.94
	SXPPS204	63870.974	125.000	261.00	-11236.33	-8049.48
		64020.974	150.000	261.00	-11259.80	-7901.33
	QUAPS209	64145.974	125.000	261.00	-11279.35	-7777.87
		64445.974	300.000	261.00	-11326.28	-7481.56
	DHCPS201	64586.974	141.000	261.00	-11348.34	-7342.30
		64914.974	328.000	261.00	-11399.65	-7018.34
	SPLI2002	65445.974	531.000	261.00	-11482.72	-6493.87
		66895.974	8.74933	1450.000	269.75	-11599.53

## DAΦNE

### Coordinate degli elementi magnetici

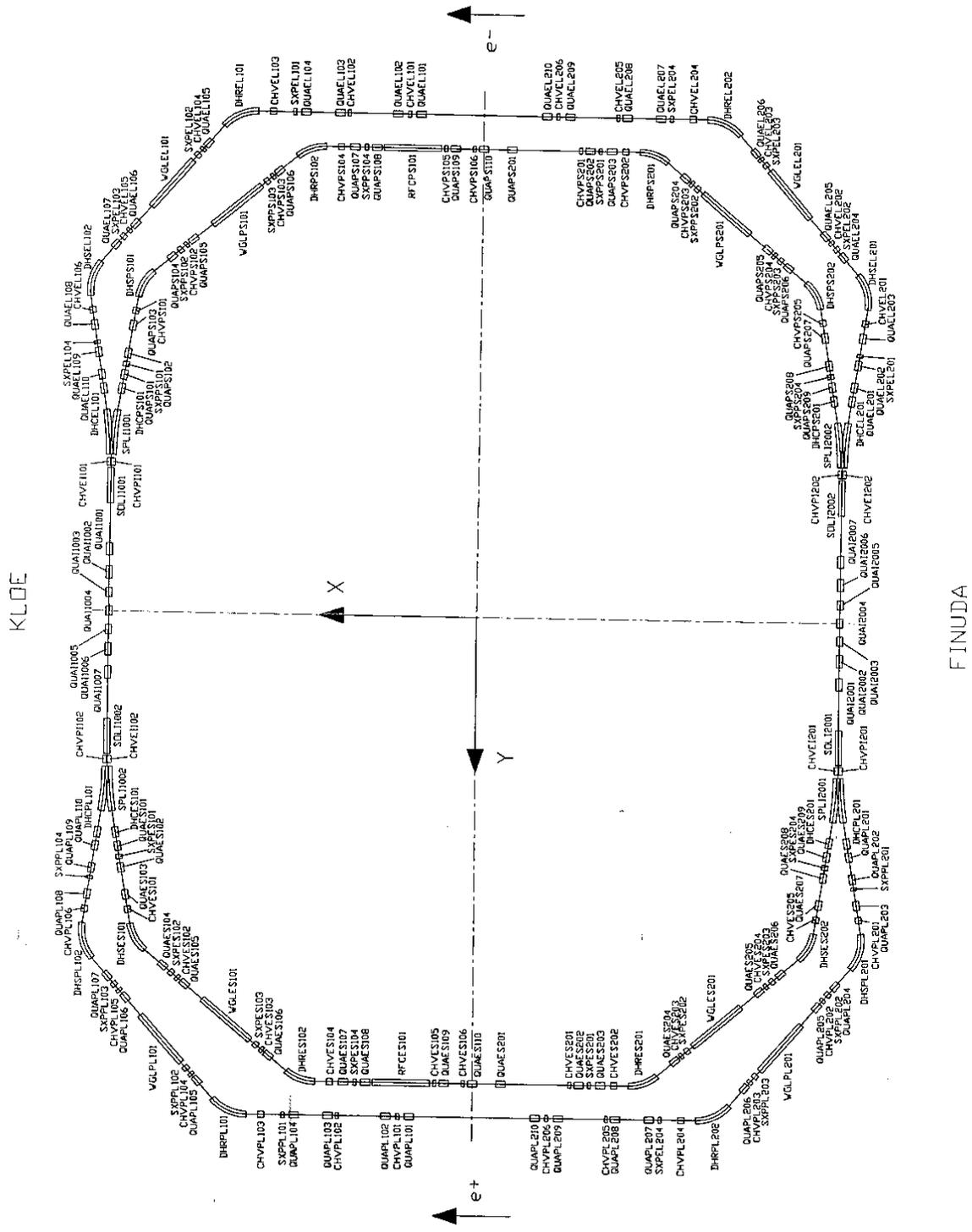
	coord. curv.	angolo	lung. mag.	ang. progr.	X	Y	
IR2	OFFSET	66895.974	0.25067	0.000	270.00	-11658.28	-5050.00
	CHVPI202	67005.974		110.000	270.00	-11658.28	-4940.00
		67245.974		240.000	270.00	-11658.28	-4700.00
	SOLI2002	67310.974		65.000	270.00	-11658.28	-4635.00
		68460.974		1150.000	270.00	-11658.28	-3485.00
	QUAI2007	69745.974		1285.000	270.00	-11658.28	-2200.00
		70145.974		400.000	270.00	-11658.28	-1800.00
	QUAI2006	70495.974		350.000	270.00	-11658.28	-1450.00
		70895.974		400.000	270.00	-11658.28	-1050.00
	QUAI2005	71195.974		300.000	270.00	-11658.28	-750.00
		71495.974		300.000	270.00	-11658.28	-450.00
	QUAI2004	71795.974		300.000	270.00	-11658.28	-150.00
		72095.974		300.000	270.00	-11658.28	150.00
	QUAI2003	72395.974		300.000	270.00	-11658.28	450.00
		72695.974		300.000	270.00	-11658.28	750.00
	QUAI2002	72995.974		300.000	270.00	-11658.28	1050.00
		73395.974		400.000	270.00	-11658.28	1450.00
	QUAI2001	73745.974		350.000	270.00	-11658.28	1800.00
		74145.974		400.000	270.00	-11658.28	2200.00
	SOLI2001	75430.974		1285.000	270.00	-11658.28	3485.00
		76580.974		1150.000	270.00	-11658.28	4635.00
	CHVPI201	76845.974		265.000	270.00	-11658.28	4900.00
		76945.974		100.000	270.00	-11658.28	5000.00
	OFFSET	76995.974	-0.25067	50.000	269.75	-11717.03	5050.00

## DAΦNE

## Coordinate degli elementi magnetici

	coor. curv.	angolo	lung. mag.	ang. progr.	X	Y	
PL2	SPLI2001	76995.974	0.000	269.75	-11717.03	5050.00	
		78445.974	-8.74933	1450.000	261.00	-11833.84	6493.87
	DHCPL201	78976.974	531.000	261.00	-11916.91	7018.34	
		79304.974	328.000	261.00	-11968.22	7342.30	
	QUAPL201	79445.974	141.000	261.00	-11990.28	7481.56	
		79745.974	300.000	261.00	-12037.21	7777.87	
	QUAPL202	80165.974	420.000	261.00	-12102.91	8192.70	
		80465.974	300.000	261.00	-12149.84	8489.00	
	SXPPL201	80585.974	120.000	261.00	-12168.61	8607.53	
		80685.974	100.000	261.00	-12184.26	8706.30	
	QUAPL203	81045.974	360.000	261.00	-12240.57	9061.86	
		81345.974	300.000	261.00	-12287.50	9358.17	
	CHVPL201	81581.974	236.000	261.00	-12324.42	9591.26	
		81781.974	200.000	261.00	-12355.71	9788.80	
	DHSPL201	82145.974	364.000	261.00	-12412.65	10148.32	
		83355.974	49.50000	1210.000	310.50	-12094.33	11277.01
	QUAPL204	83955.974	600.000	310.50	-11704.66	11733.25	
		84255.974	300.000	310.50	-11509.82	11961.38	
	SXPPL202	84380.974	125.000	310.50	-11428.64	12056.43	
		84530.974	150.000	310.50	-11331.23	12170.49	
	CHVPL202	84665.974	135.000	310.50	-11243.55	12273.14	
		84765.974	100.000	310.50	-11178.61	12349.18	
	QUAPL205	84855.974	90.000	310.50	-11120.16	12417.62	
		85155.974	300.000	310.50	-10925.32	12645.74	
	WGLPL201	85755.974	600.000	310.50	-10535.65	13101.98	
		87755.974	2000.000	310.50	-9236.76	14622.80	
	SXPPL203	87905.974	150.000	310.50	-9139.34	14736.86	
		88055.974	150.000	310.50	-9041.92	14850.92	
	CHVPL203	88180.974	125.000	310.50	-8960.74	14945.97	
		88280.974	100.000	310.50	-8895.80	15022.01	
	QUAPL206	88355.974	75.000	310.50	-8847.09	15079.04	
		88655.974	300.000	310.50	-8652.25	15307.16	
	DHRPL202	89255.974	600.000	310.50	-8262.58	15763.41	
		90465.974	49.50000	1210.000	360.00	-7197.59	16254.38
	CHVPL204	90829.974	364.000	360.00	-6833.59	16254.38	
		91029.974	200.000	360.00	-6633.59	16254.38	
	SXPPL204	91565.974	536.000	360.00	-6097.59	16254.38	
		91665.974	100.000	360.00	-5997.59	16254.38	
	QUAPL207	91815.974	150.000	360.00	-5847.59	16254.38	
		92115.974	300.000	360.00	-5547.59	16254.38	
	QUAPL208	92895.974	780.000	360.00	-4767.59	16254.38	
		93195.974	300.000	360.00	-4467.59	16254.38	
	CHVPL205	93290.974	95.000	360.00	-4372.59	16254.38	
		93390.974	100.000	360.00	-4272.59	16254.38	
	QUAPL209	94735.974	1345.000	360.00	-2927.59	16254.38	
		95035.974	300.000	360.00	-2627.59	16254.38	
	CHVPL206	95220.974	185.000	360.00	-2442.59	16254.38	
		95320.974	100.000	360.00	-2342.59	16254.38	
	QUAPL210	95485.974	165.000	360.00	-2177.59	16254.38	
		95785.974	300.000	360.00	-1877.59	16254.38	
	INIEZIONE	97663.562	1877.588	360.00	0.00	16254.38	





KLOE

FINUDA