

PROGRAMME OF ACCEPTED EXPERIMENTS

CERN INTERSECTING STORAGE RINGS

DECEMBER 1973

Table 1 : ISR Experiments running or accepted

Table 2 : ISR Experiments completed at May 1973

- Figures :
1. General Layout of Experiments at the ISR
 2. Layout of Intersection 1
 3. Layout of Intersection 2
 4. Details of Experiments R-201 and R-203
 5. Layout of Intersection 4 with the SFM facility
 6. Elevation view of the SFM facility
 7. Sketch of the MWPC system for the SFM facility
 8. Layout of Intersection 6
 9. Layout of Intersection 7
 10. Layout of Intersection 8
 11. Details of Experiment R-802.

L. Di Lella
ISR Co-ordinator.

Table 1
ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of group	Date of NRPC Acceptance	Status
I-1	R-105	CERN/ISRC/72-13, Add. 1 and Add.2 and Add.3	To measure high transverse momentum charged particles and neutral pions	CERN-Columbia-Rockefeller-Saclay collaboration: Banner, Blumenfeld, Büscher, Camilleri, Chèze, Cool, Di Lella, Hamel, Lederman, Pansart, Pope, Rothenberg, Segler, Smith, A.M., Stirling, Teiger, Zaccone, Tannenbaum, White	NRPC 85 5.11.1969	In Production.
I-1	R-106	CERN/ISRC/73-19 and Add. 1 + 2	Search for Magnetic Monopoles with the Plastic Detector Technique	Bologna-CERN/Saclay-Rome collaboration: Capiluppi, Giacomelli, Rossi, Vannini, Bussière, Baroni, Diliberto, Petrera, Romano	NRPC 120 5.9.1973	In Production
I-1	R-107	CERN/ISRC/73-7, Add. 1 and Add. 2	Search for Multigamma Events at the ISR	Brookhaven-Rome-Grumman collaboration: Yuan, Dell, Uto; Ed. Amaldi, Beneventano, Borgia, Pistilli, Sestili; Dooher	NRPC 122 14.11.1973	Installation ex- pected second half 1974

Table 1 (cont'd)

ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	Data of NRPC Acceptance	Status
I-2	R-201	CERN/ISRC/69-5 and Add.1-7 CERN/ISRC/69-9	Particle production at small angles	CERN-Holland-Lancaster-Manchester Collaboration: Albrow, Barber, Brooks, Bogaerts, Bosnjakovic, Chang, Clegg, Erné, Kooyman, Loebinger, McCubben, Murphy, Rudge, Sens, Sessoms, Timmer	NRPC 84 4.7.1969	Taking data
I-2	R-203	CERN/ISRC/69-2; 69-3; Add.1 CERN/ISRC/69-44; t 48 ³ CERN/ISRC/70-32; CERN/ISRC/71-9	Inclusive production of high momentum particles in proton-proton collisions at the ISR	The collaboration mentioned below, and the Scandinavian Coll.: Alper, Bøggild, Booth, Carroll, Damgaard, Von Dardel, Groves, Jackson, Jarlskog, Kloving, Leistam, Lillethun, Øigaard-Nielsen, Prentice, Quarrie, Weiss	NRPC 84 4.7.1969	Taking data till end'73
I-2	R-204	CERN/ISRC/69-3 and Add.1+2 + 3	Measurement of muons with large transverse momentum as a search for the intermediate vector boson	British Universities: Jeffs, Leechikwong, Lintern, Pitts, Sharp, Sharrock, Gibson, Manning, W. Smith	NRPC 84 4.7.1969	Taking data till end 1973
I-2	R-205	CERN/ISRC/73-27 and Add.1 + 2	Study of high Transverse Momentum Behaviour at the ISR	Daresbury-Liverpool-RHEL collaboration: Alper, Aston, Booth, Carroll, Clark, Duke, Groves, Holloway, Jackson, Morris, Ott, Renshaw, Rock, Shah, Thresher, Wenzel	NRPC 123 5.12.1973	Instal- lation January'74

Table 1 (cont'd)
ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	Date of NRPC Acceptance	Status
I-4	R-401	CERN/ISRC/69-14 and Add. 1-5	Isobar production at ISR energies (with the forward part of the SFM detector and additional n-, trigger- and monitor counters). Special MWPC's for the compensator magnet are added for the standard set-up (built in Vienna)	CERN-Hamburg-Orsay-Vienna (CHOV) Coll.: Lohrmann, Nagy, Regler, Schmidt-Parzefall, Winter, Brandt, Flügge, Niebergall, Schubert K.R., Schumacher, Broll, Coignet, Favier, Massonnet, Vivargent, Bartl, Dibon, Gottfried, Neuhofner	NRPC 83 4.7.1969	Taking data
I-4	R-403T	CERN/ISRC/70-5	S.F.M. test	S.F.M. detector group: Charpak, Fischer, Heck, Drijard, Innocenti, Minten, Piuz, Maurin	NRPC 95 3.2.1971	In Production

T = Test Experiment

Table 1 (cont'd)

ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	Date of NRPC Approval	Status
I-4	R-406	CERN/ISRC/70-31 and Add. 1 and 2	Search for new particles at the ISR (Using Split Field Magnet)	CERN-Bologna Coll.: Bollini, Brunini, Giusti, Massam, Monari, Palmonari, Rimondi, Valenti, Zichichi	NRPC 110 30.8.1972	Testing Equipment
I-4	R-407	CERN/ISRC/71-30 and Add. 1	Two-particle correlations in the fragmentation region using the SFM.	CERN-Coll.de France-Heidelberg-Karlsruhe, Coll.: Charpak, Drijard, Fischer, Innocenti, Kittel, Minten, Morrison, Schwille, Sotiriou, Stroynowski, Szeptycka (Warsaw), Wahl; DellaNegra, Frenkel, Ghesquière, Fontaine; Frehse, Kluge, Schneider; Hanke, Isenbeck, Köbberling, Schmidt, K.H., Schopper (DESY), Wegener, Zeller	NRPC 110 30.8.1972	Taking Data
I-4	R-408	CERN/ISRC/71-34 CERN/ISRC/73-29	To measure inelastic proton-proton scattering at the ISR			
I-4	R-410	CERN/ISRC/71-37, CERN/ISRC/72-7 and Add. 1-5	Study of particle correlations at large angles	MIT-Orsay. Scandinavian Coll.: Bøggild, Burger, Chen, von Dardel, De Bouard, Jarlskog, Kloving, Lillethun, Little, Löstad, Lu, Overgaard-Pedersen, Almehed, Smith, D., Ting, Villeneuve,	NRPC 110 30.8.1972	No Time Allocation Yet
I-4	R-411	CERN/ISRC/72-23	Double Isobar Production at the ISR to study $p + p \rightarrow (\pi^+ \pi^-) + (\pi^+ \pi^-)$	Pavia-Princeton Coll.: Cavalli-Sforza, Coyne, Dolfini, Goggi, Mantovani, O'Neil, Piazzoli, Ratti, Scannicchio	NRPC 112 1.11.1972	First run expected April '74
I-4	R-412	CERN/ISRC/72-30 and Add. 1 and 2	Study of Large Transverse Momentum Events using the SFM and Lead Glass Cerenkov counters	Aachen-CERN-Munich Coll.: Darriulat, Derado, Dittman, Eckardt, Eggert, Gebauer, Holder, McDonald, Meinke, Modis, Navarria, Pugh, Sanders, Schmitz, Schneider, Steinberger, Thomé, Tittel, Williams, Seyboth	NRPC 119 4.7.1973	No Time Allocation Yet
I-4	R-413	CERN/ISRC/72-7 and Add. 1-5	Selective large p_T trigger for the SFM	The R-410 (Orsay-Scandinavian) participants and Liverpool: Booth, Carroll, Jackson (Liverpool)	NRPC 120 5.9.1973	No Time Allocation Yet

Table 1 (cont'd)
ACCEPTED ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	Date of NRPC Acceptance	Status
I-1	R-602 Phase II.	CERN/ISRC/69-19, and Add. 1-12	Measurement of elastic scattering cross section and σ_T .	CERN-Aachen-Genova-Harvard-Munich Collaboration: Baum, Böhm, De Zorzi, Ellis, Foeth, Hilscher, Kernan, Fr. Müller, Naroska, Rubbia, Schinzel, Sette, Staude, Strolin, Trilling, Von Baksay	NRPC 83 4.7.1969	Re-installation expected Jan. 1974
I-6	R-603	CERN/ISRC/71-45 and Add.1 + 2	Inclusive Measurement of Multiparticle Hadron Systems (Δ^{**})	CERN-Aachen(III.Phys.Inst.)-UCLA-Univ.of Genova (+INFN)-Univ.of Munich Collaboration: Ellis, Strolin; Von Baksay, Boehm, Foeth; Lockman, Medinris, Meyer T., Rander, Schlein, Webb; De Zorzi, Sette, Staude	NRPC 104 2.2.1972	Taking data

Table 1 (cont'd)
ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	Date of NRPC Acceptance	Status
1-7	R-701	CERN/ISRC/72-17, Add.1	Observation of p-p collisions with streamer chambers	CERN-Aachen-Munich Collaboration: Darriulat, Derado, Dittman, Eckardt, Eggert, Gebauer, Holder, McDonald, Meinke, Modis, Pugh, Sanders, Schmitz, Schneider, Seyboth, Thomé, Tittel	NRPC 110 30.8.1972	Taking data

Table 1 (Cont'd)
ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	Date of NRPC Acceptance	Status
1-8	R-801	CERN/ISRC/69-12 and Add.1-6	Measurement of σ_{tot} and correlations with counter hodoscopes and lead glass Cerenkov counters	Pisa-Stony Brook Collaboration: Amendolia, Bellettini, Braccini, Del Prete, Foà, Laurelli, Menzione, Ristori, Sanguinetti, Valdata; Finocchiaro, Grannis, Kephart, Thun	NRPC 83 4.7.1969	Running
1-8	R-802	CERN/ISRC/71-41 and Add.1+4	Particle production in the forward direction using a magnetic spectrometer and multi-wire proportional chambers	CERN-Rome Collaboration: U. Amaldi, Allaby, Bartel, Cocconi, Diddens, Dimcovski, Dobinson, Duinker, Wetherell; Thorndike; Baroncelli, Bosio, Matthiae	NRPC 107 3.5.1972	Running
1-8	R-803	CERN/ISRC/73-11, and Add. 1-2	Study of Inclusive Particle Production at very low p_t and $X=0$	British-Scandinavian-MIT Coll.: Bøggild, Duff, Gibson, Jarlskog, Leistam, Leong, Little, Ogren-Duane, Prentice, Newman, Sharrock, Wu	NRPC 120 5.9.1973	Installation beginning January 1974
1-8	R-804	CERN/ISRC/73-28 and Add. 1	Study of Electromagnetic Properties of Protons in the Time-like Region and Search for the Neutral Boson Z^0	Genova-Harvard-MIT-Pi a Coll.: Diambrini, Palazzi, Becker, Biggs, Cook, Everhart, Goldhagen, Little, Strauch, Ting; Bellettini, Braccini, Castaldi, Cavasinni, Del Prete, Laurelli, Sanguinetti, Valdata	NRPC 123 5.12.1973	Installation probably some time in 1975

Table 2
ISR EXPERIMENTS COMPLETED AT DEC. 1973

Area	Expt. Code	Description of Experiment	Authors	Completion of Data-taking	Status
1-1	R-101	Emulsion Exposures giving Angular distribution of charged and stopping particles between 35° and 90°	CERN-Cracow-Bucharest-Tata Emulsion Collaboration: Annoni, Cordaillat, Czyzewski, Friedländer, Gierula, Gurtu, Haiduc, Herz, Marin, Vicky, Wolter	September 1971	Published
1-1	R-102	a) Study of interactions in which gamma rays and electrons with large transverse momentum are emitted. b) Search for "Quarks" at large angles.	Saclay-Strasbourg Collaboration: Banner, Cheze, Hamel, Stirling, Teiger, Zaccone, Pansart; Bassompierre, Croissiau, Gresser, Morand, Schneegans, Riedinger	April 1972	Published
1-1	R-103	Search for Massive Dileptons	CERN-Columbia-Rockefeller Collaboration: Büsser, Camilleri, Di Lella, Placci, Pope, Smith A., Yoh, Zavattini; Blumenfeld, Lederman; Cool, Litt L., Segler	December 1972	Published
1-1	R-104T	An Exploratory Experiment on the Search for Multigamma Events	Brookhaven-Grumman-Rome Collaboration: Yuan, Uto, Dell, Dooher, Amaldi, Beneventano, Borgia, Pistilli	December 1972	Published
1-2	R-202	Study of positive and negative particle production in high energy proton-proton collisions at medium and intermediate angles	Argonne-Bologna-Michigan Collaboration: Antinucci, Babcock, Bertin, Bussière, Cappiluppi, D'Agostino-Bruno-Ellis, Giacomelli-Krisch, Maroni, Ratner, Roberts, Rossi, Vannini	September 1971 (Positive particle production). May 1973 (Negative particle production)	Published
1-4	R-404T	Test to search for heavy baryon isomers	CERN-Hamburg-Vienna Collaboration: Dibon, Flügge, Gottfried, Nefkens, Neuhofen, Niebergall, Regler, Schmidt-Parzefall, Schubert, Schumacher, Winter	May 1973	Published

Table 2
ISR EXPERIMENTS COMPLETED AT DES. 1973

Area	Expt. Code	Description of Experiment	Authors	Completion of Data-taking	Status
I-4	R-402	Search for fractionally charged particles	CERN-Munich Collaboration: Caldwell, Fabjan, Gruhn, Hyams, Sauli, Zahniser, Bott-Bodenhausen, Stierlin, Rochester, Winstein, Tirler	August 1972	Published
I-4	R-405	Neutron Production at small angles	CERN-Karlsruhe Collaboration: Engler, Flauger, Gibbard, Monnig, Schopper, Bartel, Schmidt	October 1972	Data analysis
I-6	R-601	p-p small angle scattering and total cross section	CERN-Rome Collaboration: Allaby, Amaldi, Bartel, Biancastelli, Bosio, Cocconi, Diddens, Dobinson, Matthiae, Wetherell	December 1972	Published
I-6	R-602	Measurement of the elastic scattering cross section beyond the Coulomb interference region. Search for "Quarks" at small angles	CERN-Aachen-Univ. Calif.-Genova-Harvard-Torino Collaboration: Baksay, Boehm, Bozzo, Di Zorzi, Ellis, Ferrero, Foeth, Maderni, Meyer, Naroska, Pilcher, Rubbia, Schlein, Sette, Staude, Strolin, Sulak, Trippe, Webb	Phase I. For Phase II see p.5.	Published

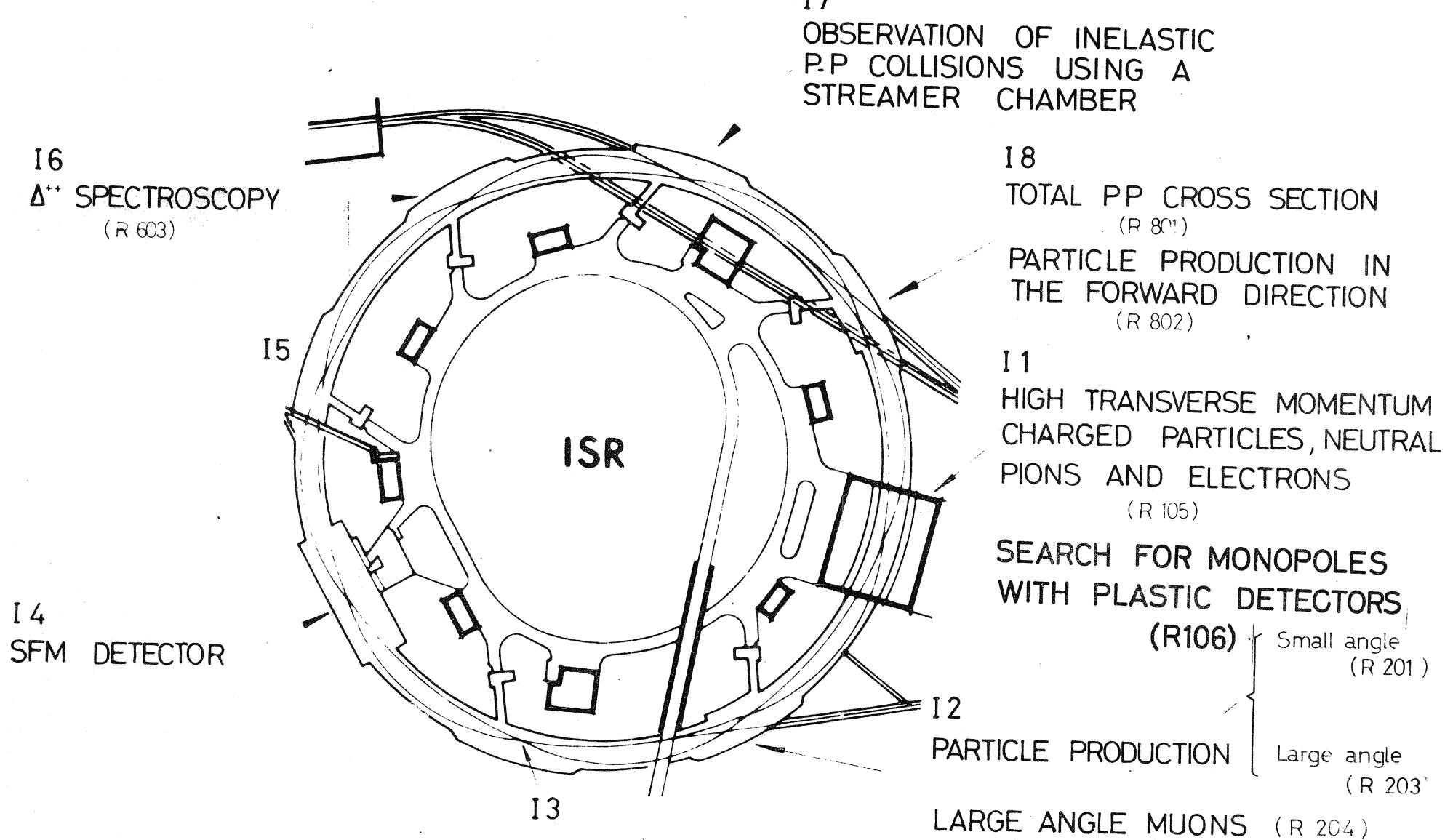
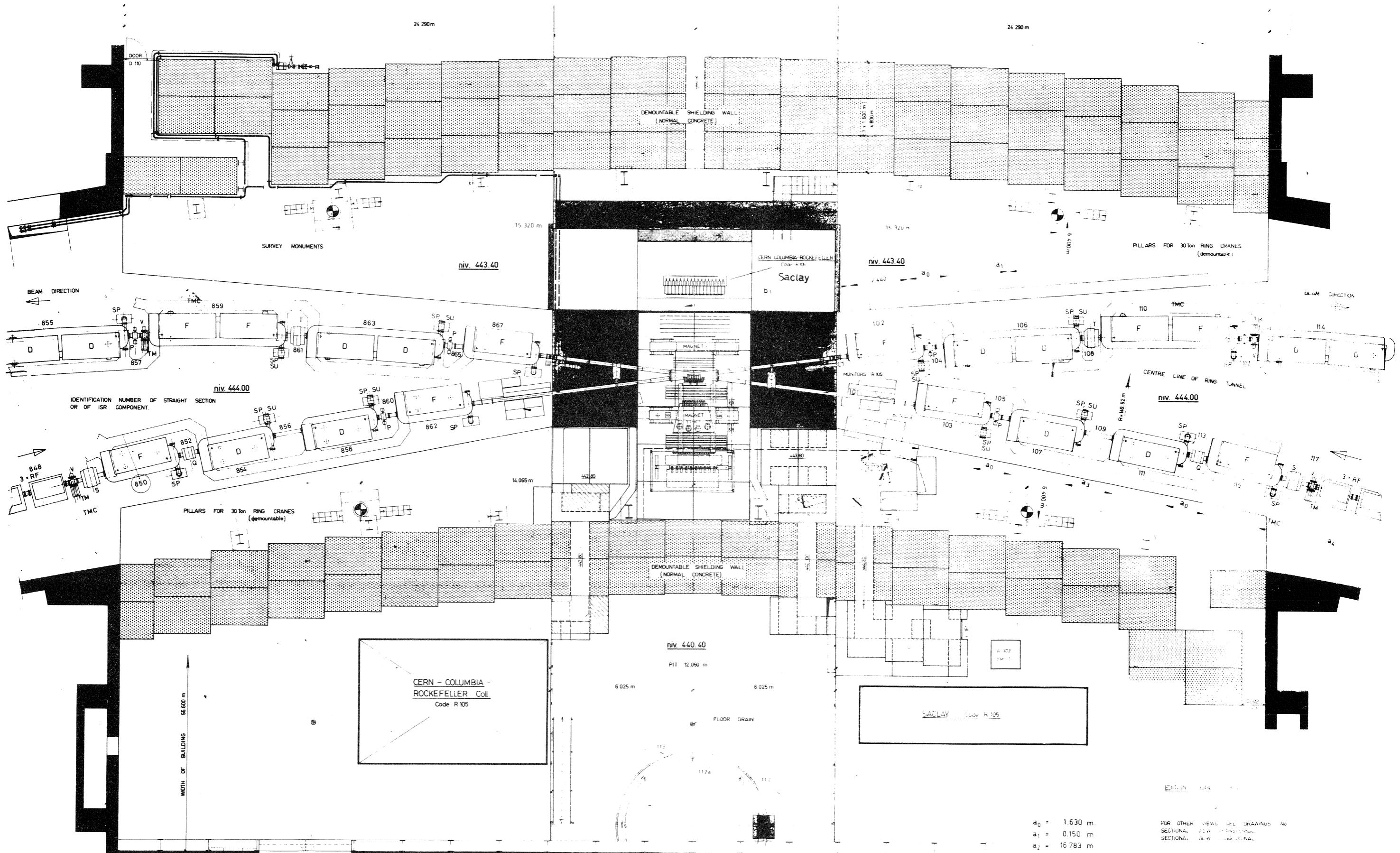


FIG. 1

ISR EXPERIMENTS

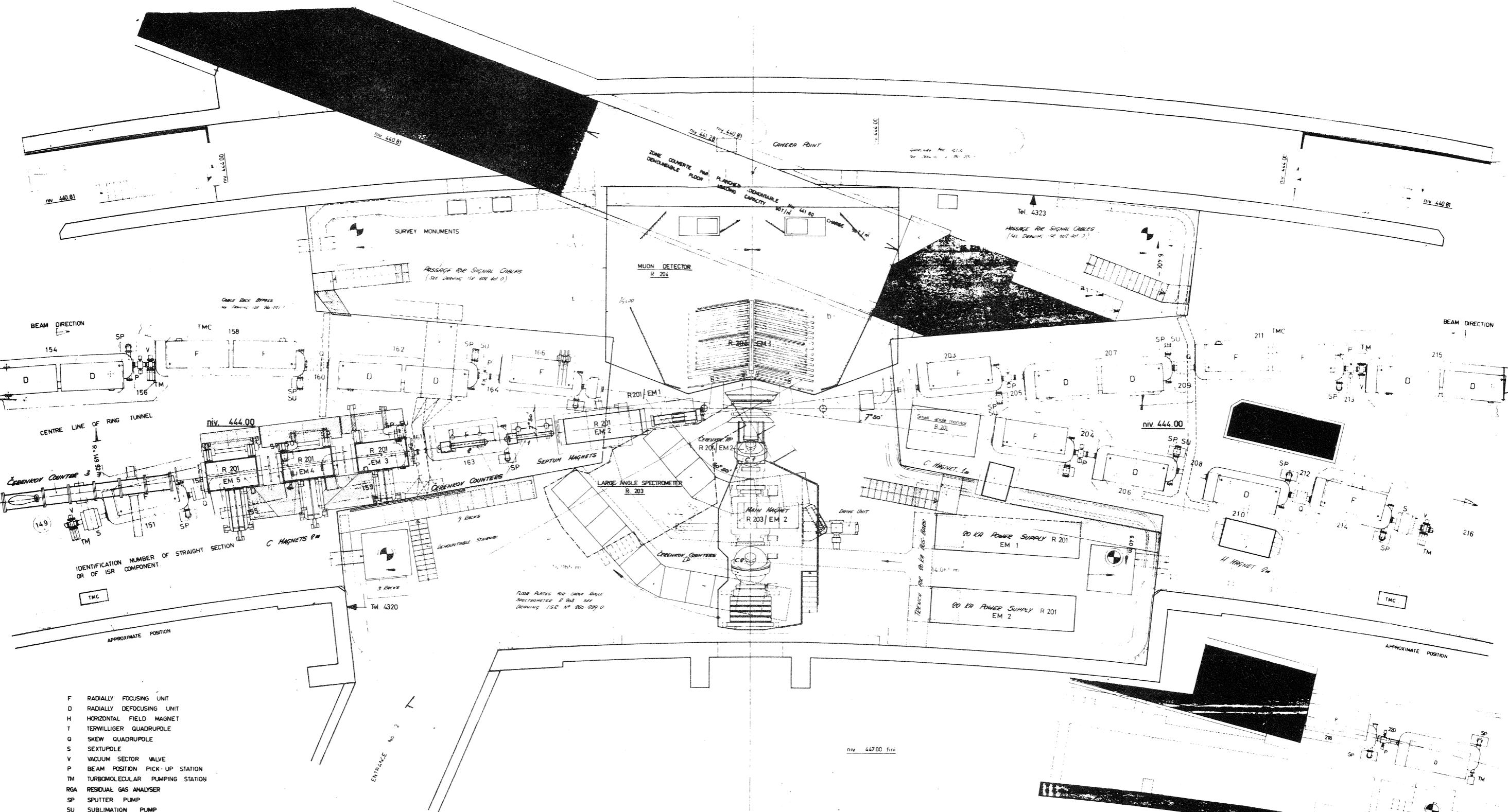
DECEMBER 1973



AVERAGE	MACHINE RADIUS	=	150.0253
MAXIMUM	RADIUS	=	154.3081
MINIMUM	RADIUS	=	145.5131
INTERSECTING	RADIUS	=	140.0151

FOR OTHER VIEWS SEE DRAWINGS NO
SECTIONAL VIEW 1-1 SECTIONAL
SECTIONAL VIEW 2-2 SECTIONAL

FIG. 2



NOTE:

<input type="checkbox"/>	SMALL ANGLE SPECTROMETER R 201
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<input type="checkbox"/>	MUON DETECTOR R 204
<input type="checkbox"/>	SPECIAL DESIGN
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VERS BAT. A 2a

AVERAGE MACHINE RADIUS = 150.0253 m
 MAXIMUM RADIUS = 154.3081 m
 MINIMUM RADIUS = 145.5134 m
 INTERSECTING RADIUS = 148.6151 m

a₀ = 1.630 m
 a₁ = 0.150 m
 a₂ = 16.783 m
 a₃ = 2.000 m
 a₄ = 13.0042 m
 b₁ = 6.9608 m
 b₂ = 9.8243 m

FOR OTHER VIEWS SEE DRAWINGS NO
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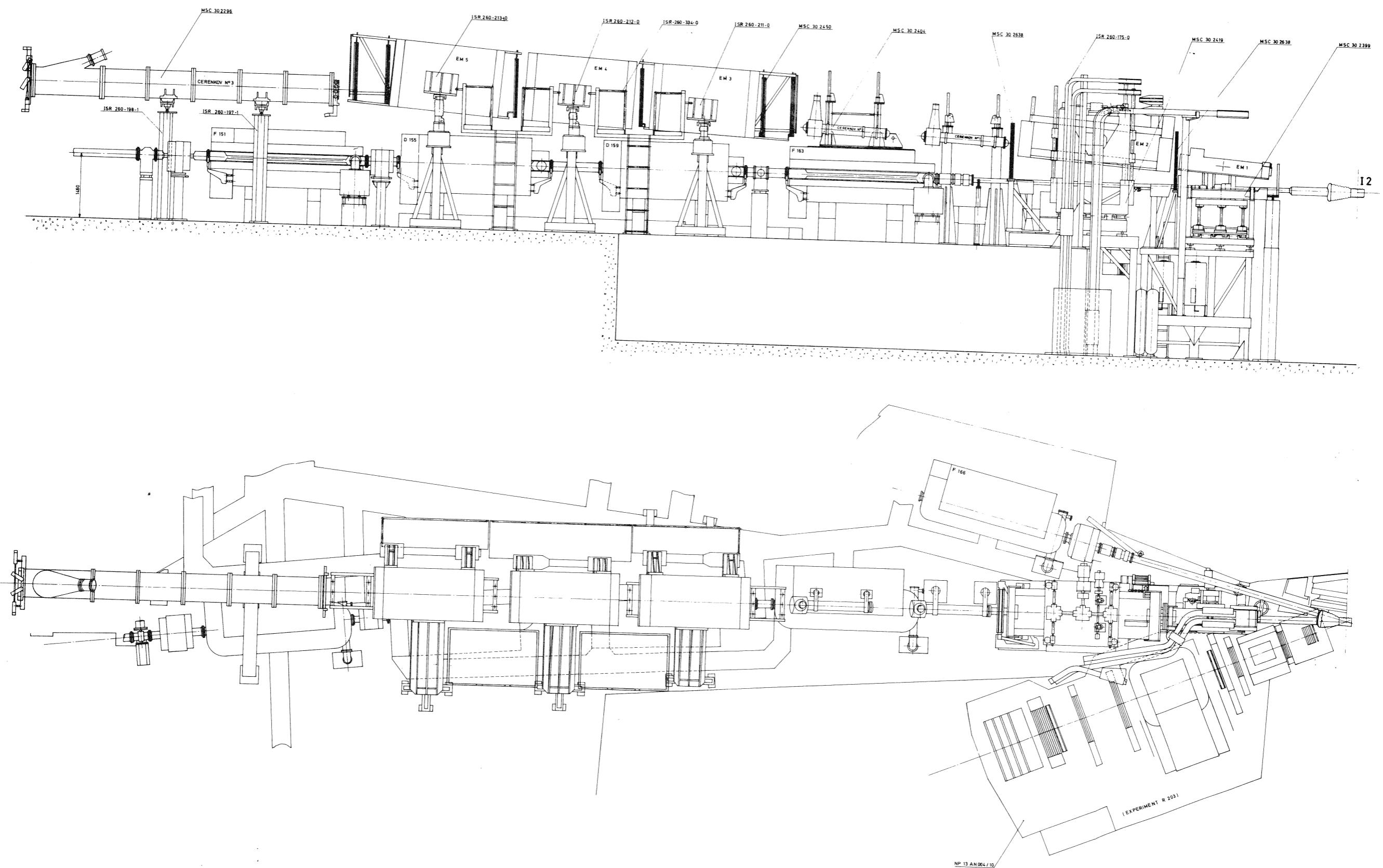


FIG. 4

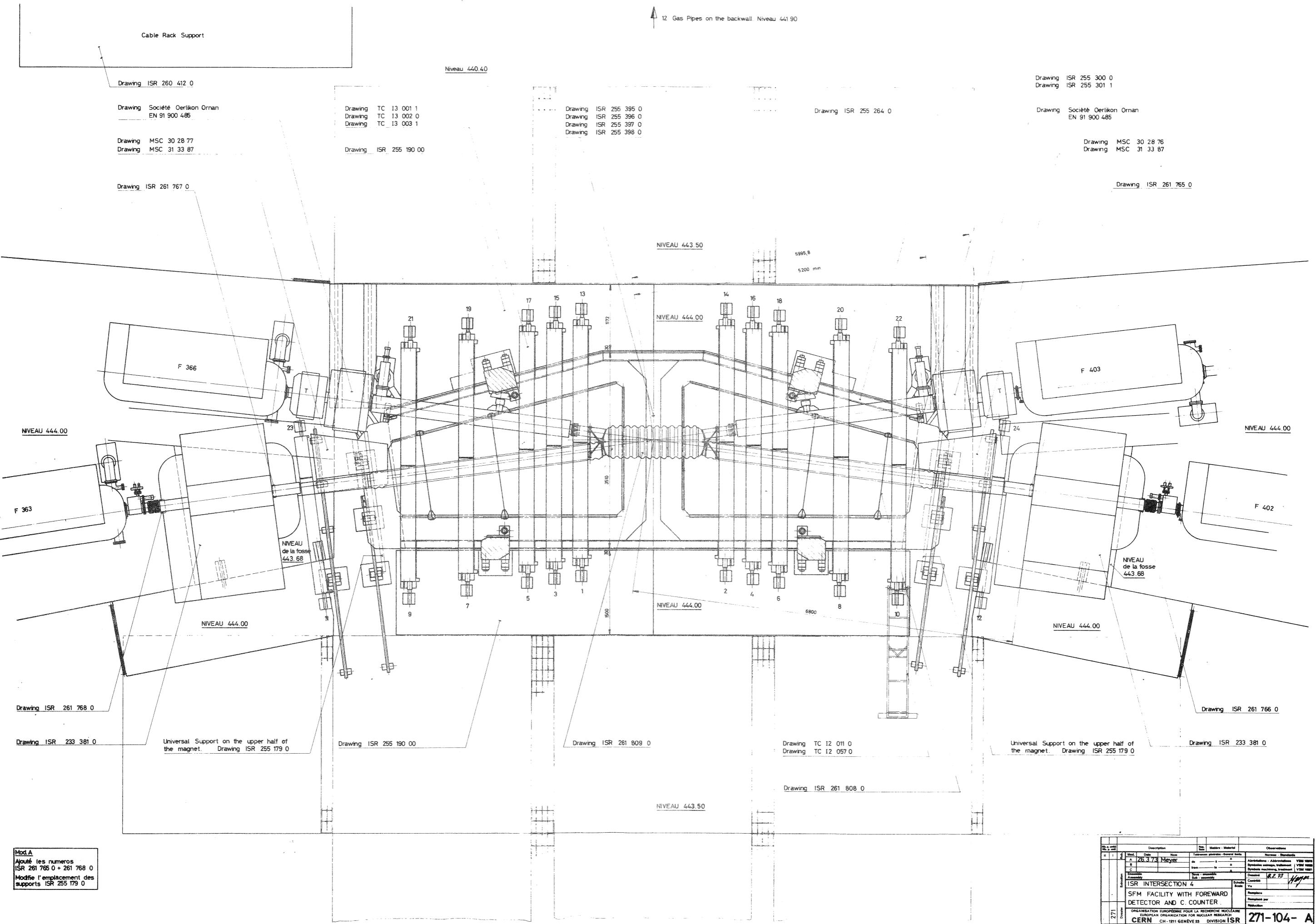
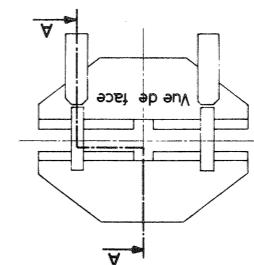
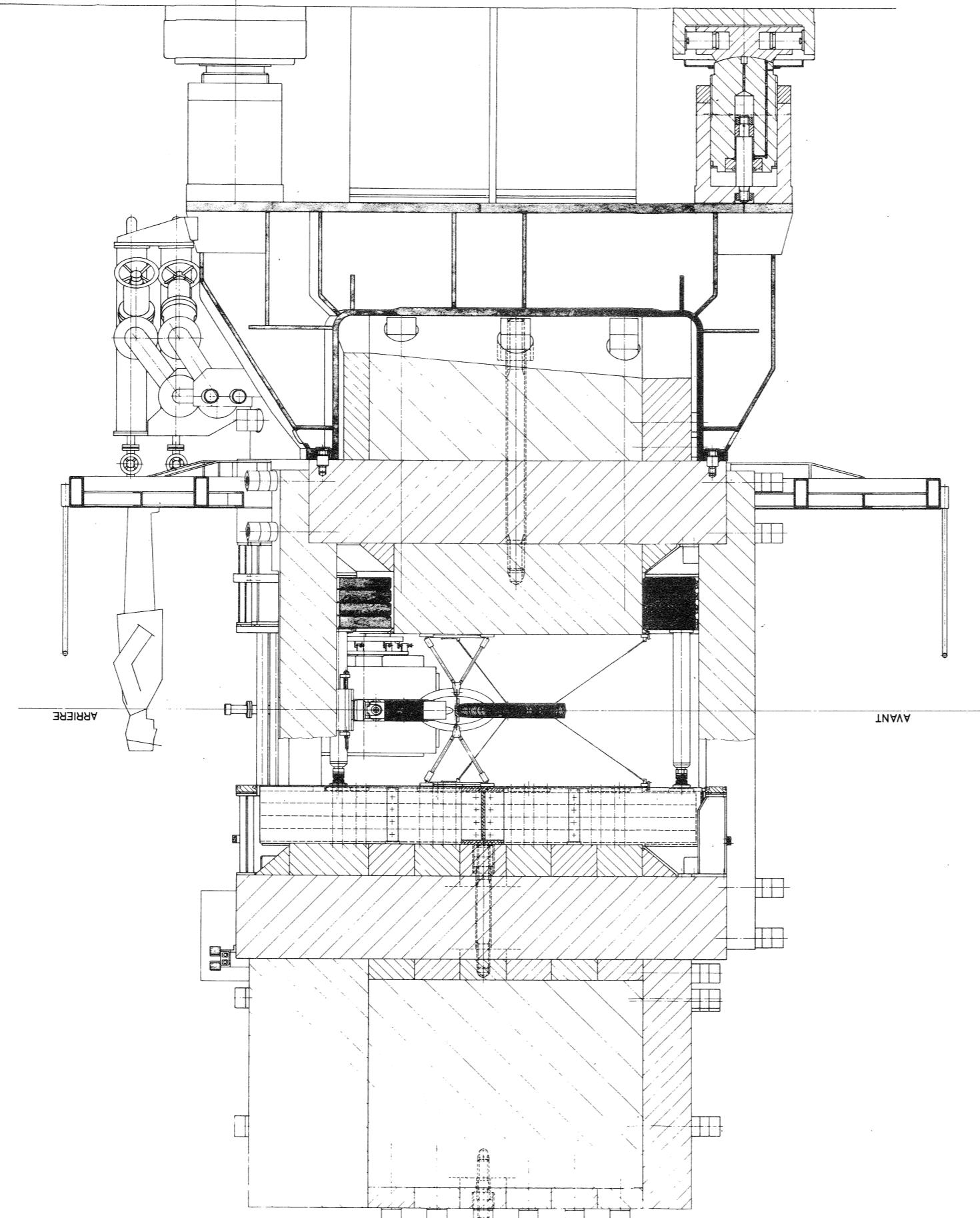
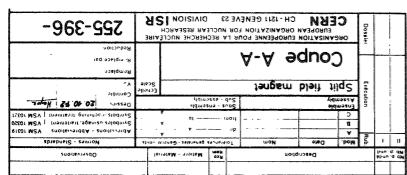


FIG. 5

FIG. 6



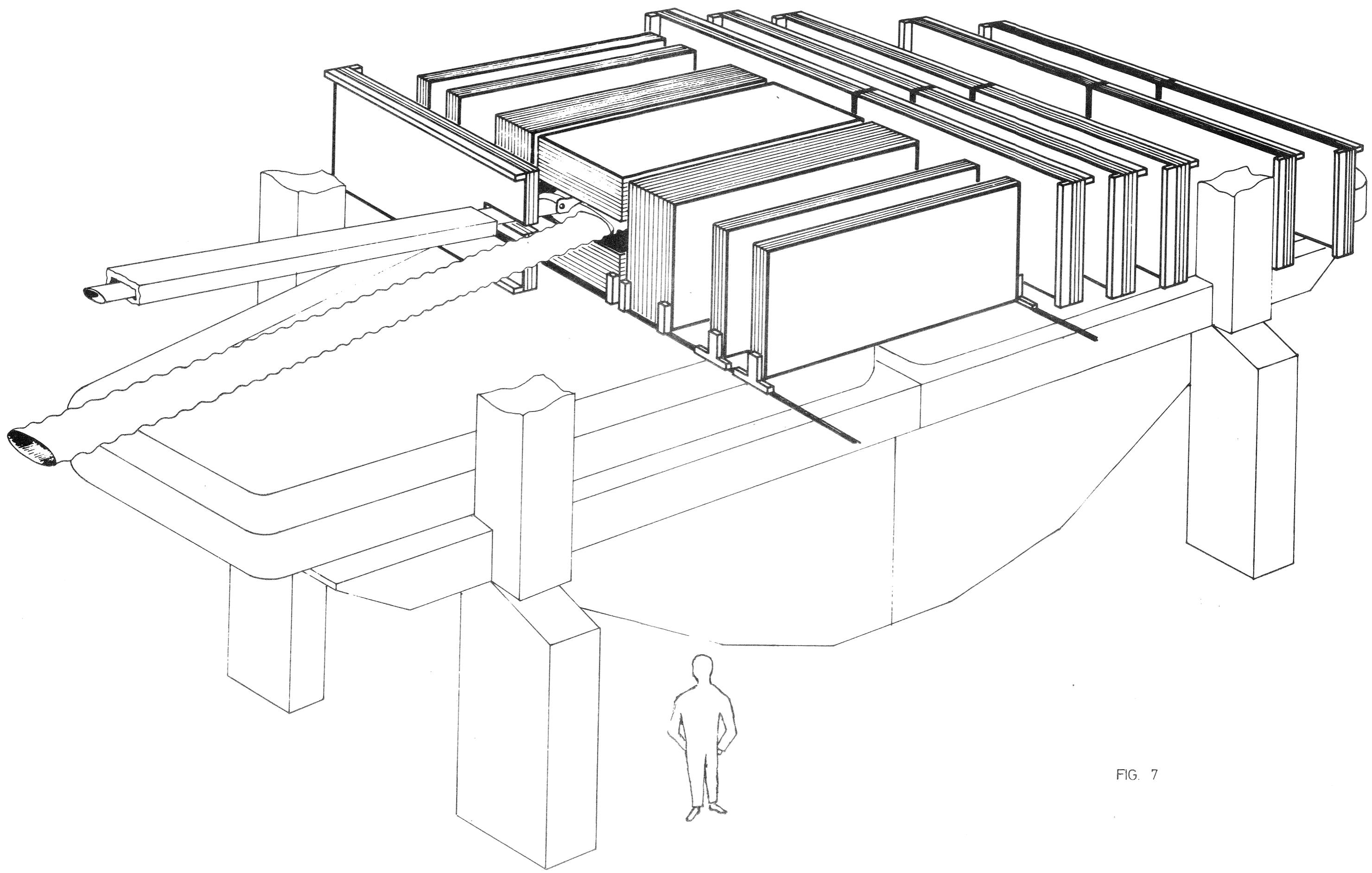


FIG. 7

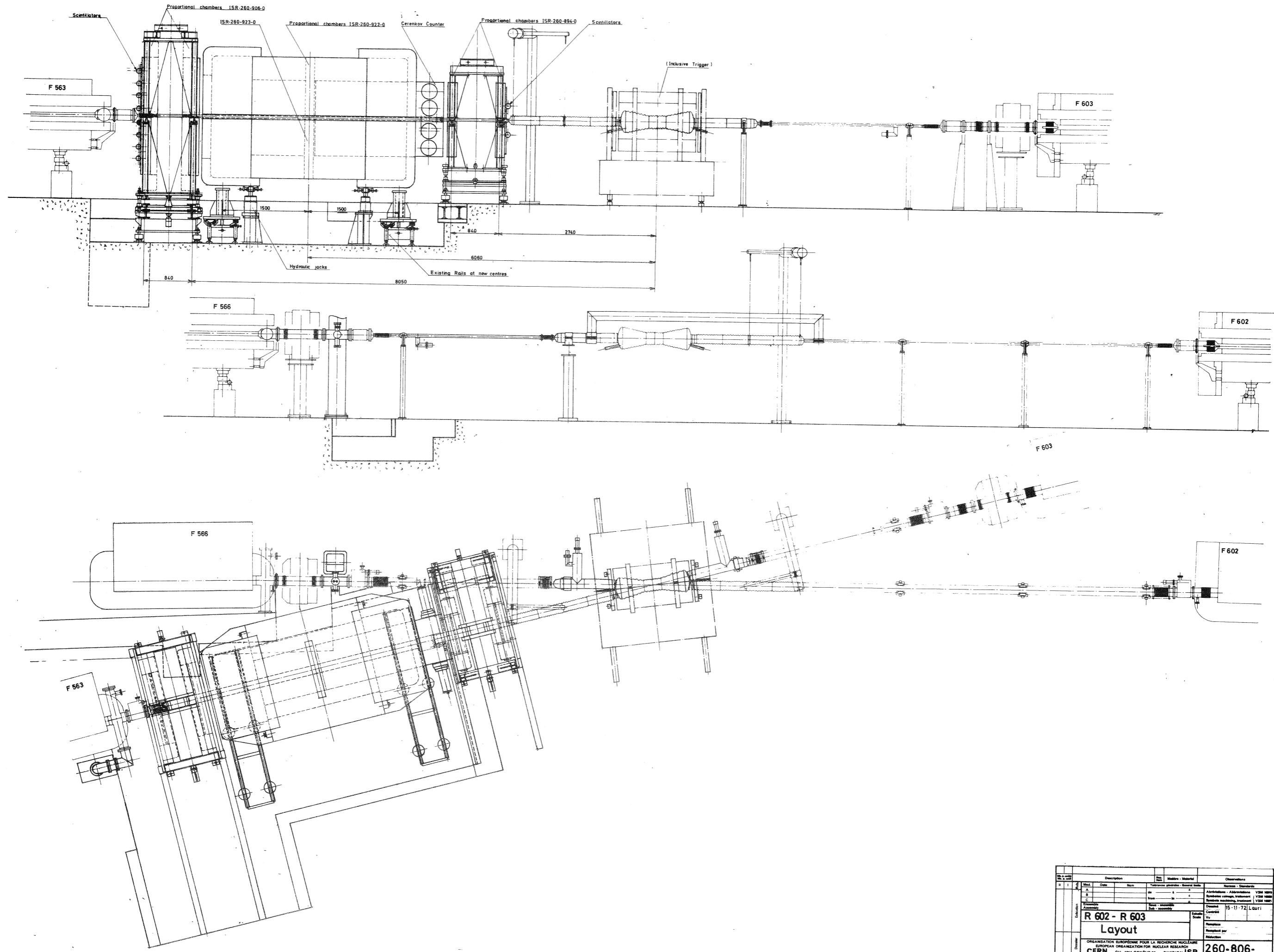
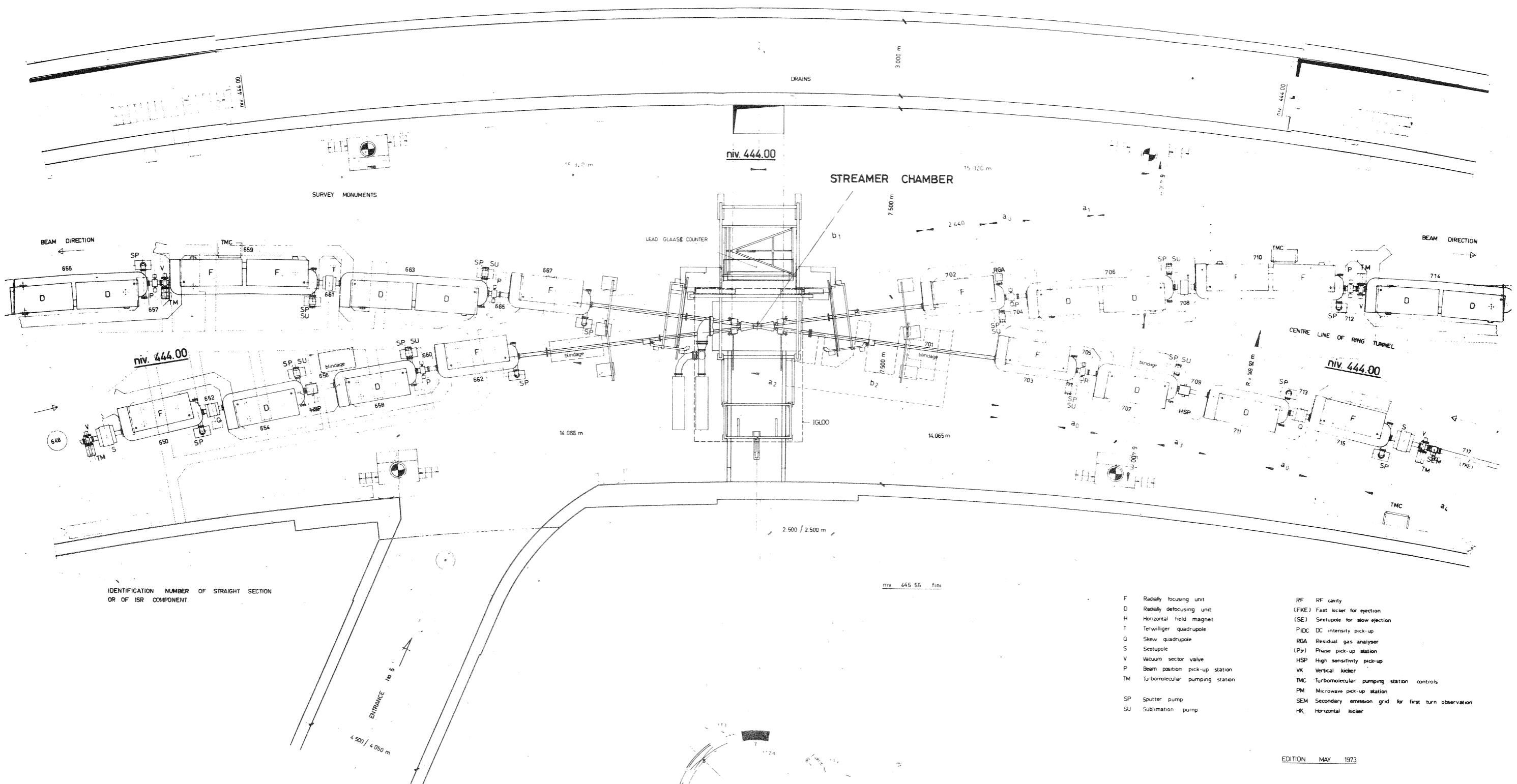


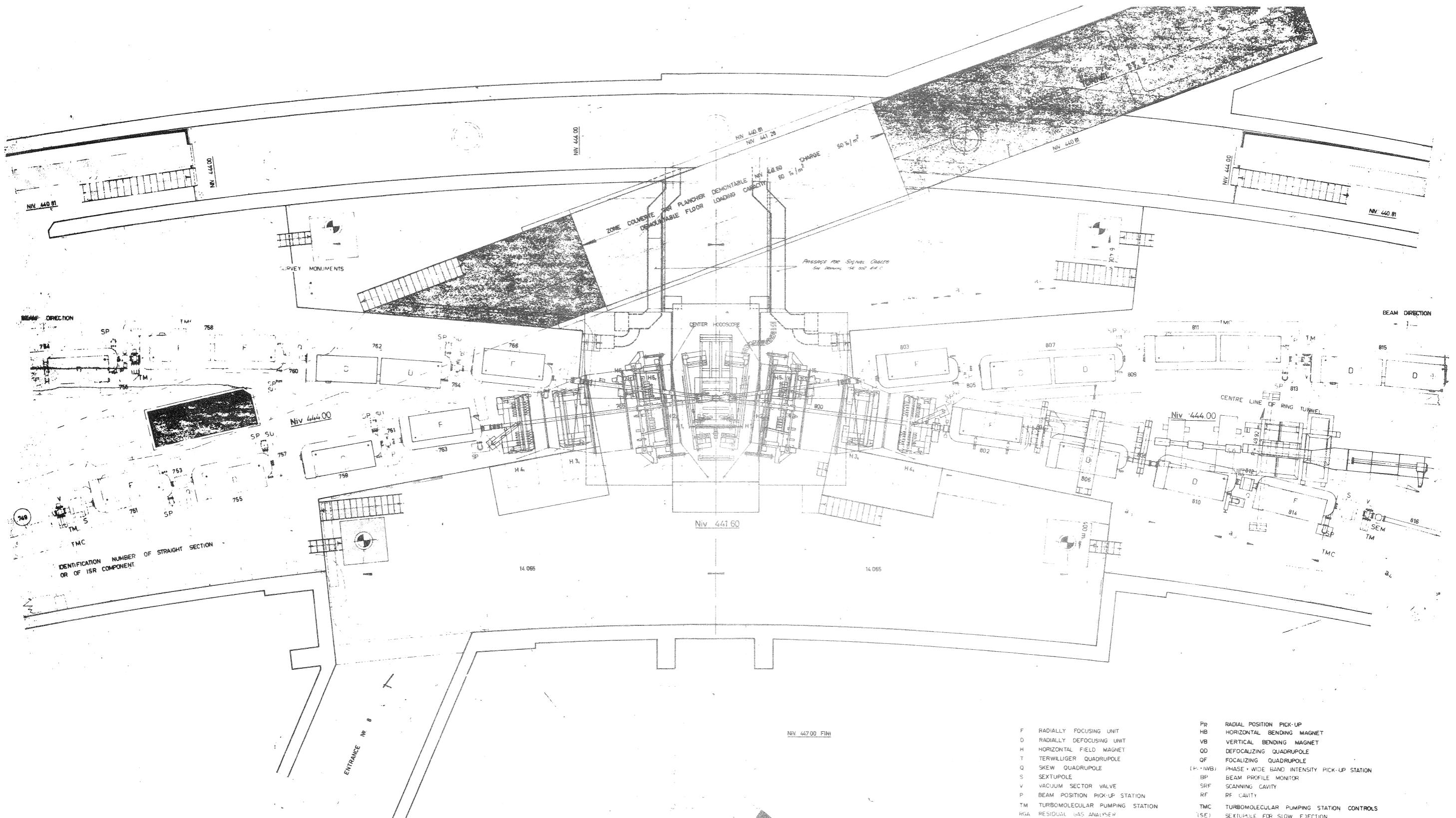
FIG. 8



Average machine radius	=	150.0253 m	a_0 =	1.630 m
Maximum radius	=	154.3081 m	a_1 =	0.150 m
Minimum radius	=	145.5134 m	a_2 =	16.783 m
Intersecting radius	=	148.6151 m	a_3 =	2.000 m
			a_4 =	13.0042 m
			b_1 =	6.9608 m
			b_2 =	9.8243 m

Model	Date	Sectional View	Material	Description
6722	24/07	Transversal	As per drawing	ISR Experiments
		Longitudinal	As per drawing	Intersection 7
		Other	As per drawing	CERN
				260-978-A

FIG. 9



F	RADIAL POSITION PICK-UP
D	RADIALY DEFOCUSING UNIT
H	HORIZONTAL FIELD MAGNET
T	TERWILLIGER QUADRUPOLE
Q	SKEW QUADRUPOLE
S	SEXTUPOLE
V	VACUUM SECTOR VALVE
P	BEAM POSITION PICK-UP STATION
TM	TURBOMOLECULAR PUMPING STATION
RGA	RESIDUAL GAS ANALYSER
SP	SPUTTER PUMP
SU	SUBLIMATION PUMP
QE	SPECIAL QUADRUPOLE FOR SLOW INTEGRAL EJECTION
PH-WB	PHASE-WIDE BAND INTENSITY PICK-UP STATION
BPM	BEAM PROFILE MONITOR
SC	SCANNING CAVITY
RF	RF CAVITY
TMC	TURBOMOLECULAR PUMPING STATION CONTROLS
(SE)	SEXTUPOLE FOR SLOW EJECTION
SEM	SECONDARY EMISSION GRID FOR FIRST TURN OBSERVATION
DM	DAMPING MAGNET
PB	SECONDARY EMISSION PROBE SCANNER
SP	SMALL SPUTTER PUMP

FOR OTHER VIEWS SEE DRAWINGS NO.
SECTIONAL VIEW TRANSVERSAL
SECTIONAL VIEW LONGITUDINAL

EDITION APRIL 1973

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91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260

AVERAGE MACHINE RADIUS = 150.0253 m
MAXIMUM RADIUS = 154.3081 m
MINIMUM RADIUS = 145.5134 m
INTERSECTING RADIUS = 148.6151 m

a₁ = 1.630 m
a₂ = 0.150 m
a₃ = 16.783 m
a₄ = 2.000 m
a₅ = 13.0042 m
b₁ = 6.9608 m
b₂ = 9.8243 m

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
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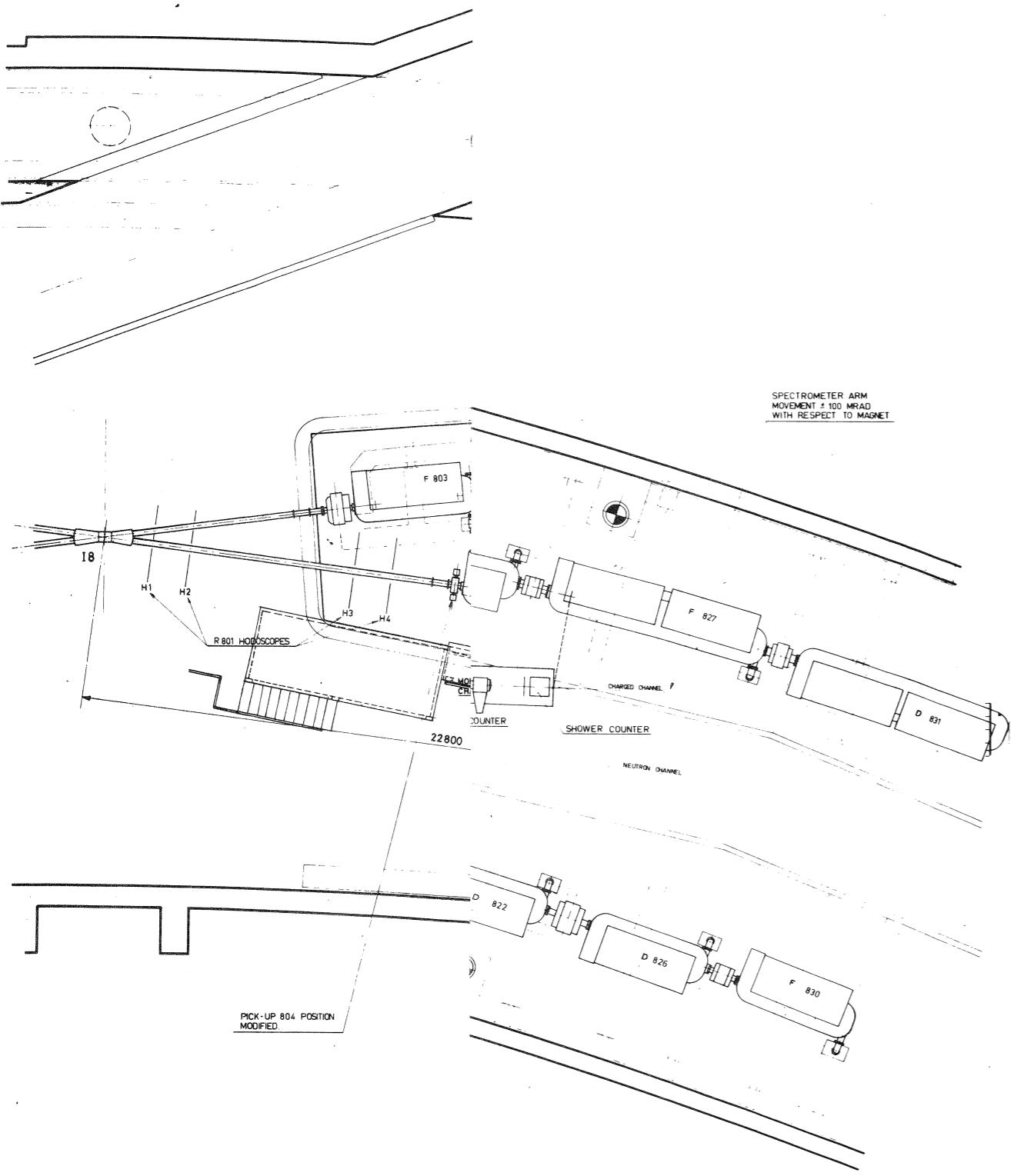
260-450-0

CERN - H-121-GENEVE-22 DIVISION ISR

INTERSECTION 8

PLANOIS UNIFORME POUR LA MACHINE ISABELLE
EUROPEAN LABORATORY FOR NUCLEAR RESEARCH

FIC 10



Mod. Date		Nom.		Matériel - Matériau		Observations
N	I	G	Date	Nom	Matériel - Matériau	
			A 18-5-72	Lauri	as	Normal - Standards
			B 5-10-72	Lauri	as	Abnormal - Assemblage VSM 10214 Symbolic voltage, treatment VSM 10200 Symbolic machining, treatment VSM 10200
Fresnel Assembly		Sub-assembly		Demande		
R 802 EXPERIMENT		CERN - ROME		Date		
Layout in 18				Scale		
				Vx		
				Rampage		
				Rampage per Reduction		
difications		Signatures				
is details de R 802		Lauri				
ons des chambres		Lauri				
Passerelle		Lauri				
ORGANISATION EUROPÉENNE POUR LA RECHERCHE NUCLÉAIRE EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH CERN CH-1211 GENEVE 23 DIVISION ISR						260-711-c

FIG. 11