

CERN/ISR/EXP/7  
March 1974

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

PROGRAMME OF ACCEPTED EXPERIMENTS  
CERN INTERSECTING STORAGE RINGS  
MARCH 1974

Table 1 : ISR Experiments running or accepted

Table 2 : ISR Experiments completed at March 1974

- Figures 1: General Layout of Experiments at the ISR  
2: Layout of Intersection 1  
3: Layout of Intersection 2  
4: Layout of Intersection 4 with the SFM facility  
5: Elevation view of the SFM facility  
6: Layout of Intersection 6  
7: Layout of Intersection 7  
8: Layout of Intersection 8  
9: Details of Experiment R-802.

M.G. Albrow  
ISR Co-ordinator.

Table 1  
ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	NPRC Acceptance	Status
I-1	R-105	CERN/ISRC/72-13; Add.1-3	To measure high transverse momentum charged particles and neutral pions	CERN-Columbia-Rockefeller-Saclay Collaboration: <u>Banner</u> , <u>Blumenfeld</u> , <u>Büsser</u> , <u>Camilleri</u> , <u>Cool</u> , <u>Di Lella</u> , <u>Hamel</u> , <u>Lederman</u> , <u>Pansart</u> , <u>Pope</u> , <u>Rothenberg</u> , <u>Segler</u> , <u>Smith A.M.</u> , <u>Tannenbaum</u> , <u>Teiger</u> , <u>White</u> , <u>Zaccone</u>	NPRC 85 5.11.69	Taking data till July 1974
I-1	R-106	CERN/ISRC/73-19; Add.1-2 CERN/ISRC/74-11	Search for magnetic monopoles with the plastic detector technique	Bologna-CERN/Saclay-Rome Collaboration: <u>Capiluppi</u> , <u>Giacomelli</u> , <u>Rossi</u> , <u>Vannini</u> , <u>Bussière</u> , <u>Baroni</u> , <u>Diliberto</u> , <u>Petrera</u> , <u>Romano</u>	NPRC 120 5.9.73	In Production
I-1	R-107	CERN/ISRC/73-7; Add.1-2	Search for Multigamma Events	Adelphi-Brookhaven-Rome Collaboration: <u>Dooder</u> ; <u>Yuan</u> , <u>Dell'Uto</u> ; <u>Amaldi Ed.</u> , <u>Beneventano</u> , <u>Borgia</u> , <u>Dore</u> , <u>de Nofaristefano</u> , <u>Pistilli</u> , <u>Sestili</u>	NPRC 122 14.11.73	Installation 2nd half'74

Table 1 (cont'd)

ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	NPRC Acceptance	Status
I-2	R-205	CERN/ISRC/73-27; Add.1	Correlations associated with high transverse momentum particles	Daresbury-Liverpool-RHEL Collaboration: Alper, Aston, Booth, Carroll, Clark, Duke, Evans, Groves, Holloway, Jackson, Morris, Ott, Rock, Shah, Thresher, Wenzel, Gee	NPRC 123 5.12.73	Setting up
I-2	R-206	CERN/ISRC/73-34	Multiplicity and Rapidity distributions of diffractive collisions	CERN-Holland-Lancaster-Manchester Collaboration: Albrow, Barber, Brooks, Bošnjaković, Chang, Clegg, Erné, Kooyman, Loebinger, McCubben, Murphy, Rudge, Sens Sessoms, Singh, Timmer	NPRC 124 9.1.74	Setting up

Table 1 (cont'd)  
ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	NPRC Acceptance	Status
I-4	R-401	CERN/ISRC/69-14; Add.1-5	Iso-bar 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	CERN-Hamburg-Orsay-Vienna Collaboration: Bartl, Brandt, Broll, Coignet, Dibon, Favier, Flüge, Gottfried, Lohrmann, Massonet, Nagy, Neuhöfer, Niebergall, Regler, Schmidt-Parzefall, Schubert K.R., Schuhmacher, Vivargent, Winter	NPRC 83 4.7.69	Taking data
I-4	R-403T	CERN/ISRC/70-5	Split Field Magnet detector studies	S.F.M. detector group: Charpak, Drijard, Fischer, Heck, Innocenti, Minten, Piuz, Maurin	NPRC 95 3.2.71	In Production
I-4	R-406	CERN/ISRC/70-31; Add.1-3	Search for new particles (using Split Field Magnet)	CERN-Bologna Collaboration: Basile, Bollini, Brunini, Giusti, Massam, Monari, Palmonari, Rimondi, Valenti, Zichichi	NPRC 110 30.8.72	First run expected June 1974
I-4	R-407 R-408 }	CERN/ISRC/71-30; Add.1 CERN/ISRC/71-34 CERN/ISRC/73-29 CERN/ISRC/74-4	Two-particle correlations in the fragmentation region using the SFM.	CERN-Coll.de France-Heidelberg-Karlsruhe Coll.: Charpak, Drijard, Fischer H., Innocenti, Minten, Morrison, Schwille, Sotiriou, Stroynowski, Szeptycka (Warsaw), Wahl, Dellanegra, Frenkel, Ghesquiere, Fontaine, Frehse, Kluge, Schneider, Hanke, Isenbeck, Köbberling, Schmidt, Schopper (DESY), Wegener, Zeller	NPRC 110 30.8.72	Taking data

Table 1 (cont'd)

ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	NPRC Acceptance	Status
I-4	R-410	CERN/ISRC/71-37; 71-38+Add.1; CERN/ISRC/72-7; Add.1-2	Study of particle correlations at large angles	MIT-Orsay-Scandinavian Collaboration: <u>Bøggild, Burger, Chen, von Dardel, De Bouard, Jarlskog, Klovnning, Lillethun, Little, Lörstad, Lu, Overgaard-Pedersen, Almehed, Smith D., Ting, Villeneuve</u>	NPRC 110 30.8.72	No time allocation yet
I-4	R-411	CERN/ISRC/72-23	Double isobar production at the ISR to study $p + p \rightarrow (p\pi^+\pi^-) + (p\pi^+\pi^-)$	Pavia-Princeton Collaboration: Conta, Cavalli-Sforza, Coyne, Dolfini, Goggi, Impellizzeri, Mantovani, O'Neil, Pastore, Piazzoli, Ratti, Ressini, Scannicchio	NPRC 112 1.11.72	First run expected April '74
I-4	R-412	CERN/ISRC/72-30; Add.1-2	Study of large transverse momentum events using the S.F.M. and lead glass Čerenkov counters	Aachen-CERN-Munich Collaboration: <u>Darriulat, Derado, Dittman, Eckardt, Eggert, Gebauer, Holder, McDonald, Meinke, Modis, Navarria, Pugh, Sanders, Schmitz, Schneider, Steinberger, Thomé, Tittel, Williams E.G., Seyboth</u>	NPRC 119 4.7.1973	No time allocation yet
I-4	R-413	CERN/ISRC/72-7; Add.3-5 CERN/ISRC/74-10	Selective large $p_T$ trigger for the S.F.M.	The R-410 (MIT-Scandinavian) participants and Liverpool: Booth, Carroll, Jackson	NPRC 120 5.9.1973	No time allocation yet

Table 1 (cont'd)

ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	NPRC Acceptance	Status
I-6	R-602 Phase II	CERN/ISRC/69-19; Add.1-12	Measurement of elastic scattering cross section and $\sigma_T$	CERN-Aachen-Genova-Harvard-Munich-NorthWestern-Riverside Coll.: Baum, Böhm, De Zorzi, Ellis, Foeth, Hilscher, Kernan, Layter, Müller F., Naroska, Rubbia, Schinzel, Sette, Staude, Strolin, Telekdi, Trilling, Von Baksay	NPRC 83 4.7.69	Taking data
I-6	R-603	CERN/ISRC/71-45; Add.1-2 CERN/ISRC/74-8	Inclusive measurement of multiparticle hadron systems ( $\Delta^{++}$ )	Aachen-CERN-UCLA Coll.: V. Baksay, Böhm, Foeth, Staude, Ellis, Naroska, Strolin, Lockman, Medinnis, Meyer T., Rander, Schlein, Webb	NPRC 104 2.2.72	Re-installation expected Aug.'74
I-6	R-604	CERN/ISRC/74-3 CERN/ISRC/74-14	Elastic scattering at large angles	CERN-Harvard-Genova-Munich-North-Western-Riverside Coll.: Baum, Block, De Zorzi, Ellis, Glauber, Gobbi, Hilscher, Layter, Lecourtois, Lobkowicz, Kernan, Miller, Müller, Naroska, Rubbia, Sette, Schinzel, Staude, Tamowski, Trilling	NPRC 126 13.3.'74	No time allocation yet

Table 1 (cont'd)

ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	NPRC Acceptance	Status
I-7	R-701	CERN/ISRC/72-17; Add.1 CERN/ISRC/72-30/Add.1	Observation of p-p collisions with streamer chambers, with inclusive trigger and with high transverse momentum $\pi^0$ trigger	CERN-Aachen-Heidelberg-Munich Coll.: Albrecht, Darriulat, Derado, Dittman, Eckardt, Eggert, Gebauer, Holder, McDonald, Meinke, Modis, Pugh, Sanders, Schmitz, Schneider, Seyboth, Thomé, Titel	NPRC 110 30.8.'72	Taking data till July '74

Table 1 (cont'd)

ACCEPTED CERN ISR EXPERIMENTS

Area	Expt. Code	ISRC Reference Number	Description of Experiment	Composition of Group	NPRC Acceptance	Status
I-8	R-801	CERN/ISRC/69-12; Add.1-6 CERN/ISRC/73-14 CERN/ISRC/74-12	Measurement of $\sigma_{tot}$ 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	NPRC 83 4.7. '69	Taking data
I-8	R-802	CERN/ISRC/71-41; Add.1-4	Particle production in the forward direction using a magnetic spectrometer, multi-wire proportional chambers and neutron counter	CERN-Rome Collaboration: Amaldi U., Allaby, Cocconi, Diddens, Dimovski, Dobinson, Duinker, Wetherell; Thorndike; Amaldi U., Baroncelli, Bosio, Matthiae	NPRC 107 3.5. '72	Taking data
I-8	R-803	CERN/ISRC/73-11; Add.1-2	Study of inclusive particle production at very low $p_t$ and $X=0$	British-Scandinavian-Mit Coll.: Baggild, Duane, Duff, Gütler, Gibson, Henning, Jarlskog, Korder, Leistam, Little, Newman, Ogren, Prentice, Sanford, Sharrock, Sau-Lan Wu	NPRC 120 5.9. '73	Setting up
I-8	R-804	CERN/ISRC/73-28; Add.1	Study of electromagnetic properties of protons in the time-like region and search for the neutral boson $Z^0$ . (Muon pair production)	Genova-Harvard-MIT-Pisa Collaboration: Diambrini-Palazzi, Becker, Biggs, Cook, Everhart, Goldhagen, Little, Strauch, Ting, Bellettini, Braccini, Castaldi, Cavasinni, Del Prete, Laurelli, Sanguinetti, Valdata	NPRC 123 5.12. '73	Installation some time in 1975

Table 2

ISR EXPERIMENTS COMPLETED March 1974

Area	Expt. Code	Description of Experiment	Authors	Completion of Data-taking	Status
I-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
I-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, Zacccone, Pansart; Bassompierre, Croissiau, Gresser, Morand, Schneegans, Riedinger	April 1972	Published
I-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
I-1	R-104T	An exploratory experiment on the search for multigamma events	Brookhaven-Grumman-Rome Collaboration: Yuan, Uto, Dell, Dooher, Amaldi Ed., Beneventano, Borgia, Pistilli	December 1972	Published
I-2	R-201	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	March 1974	Published, Analysis

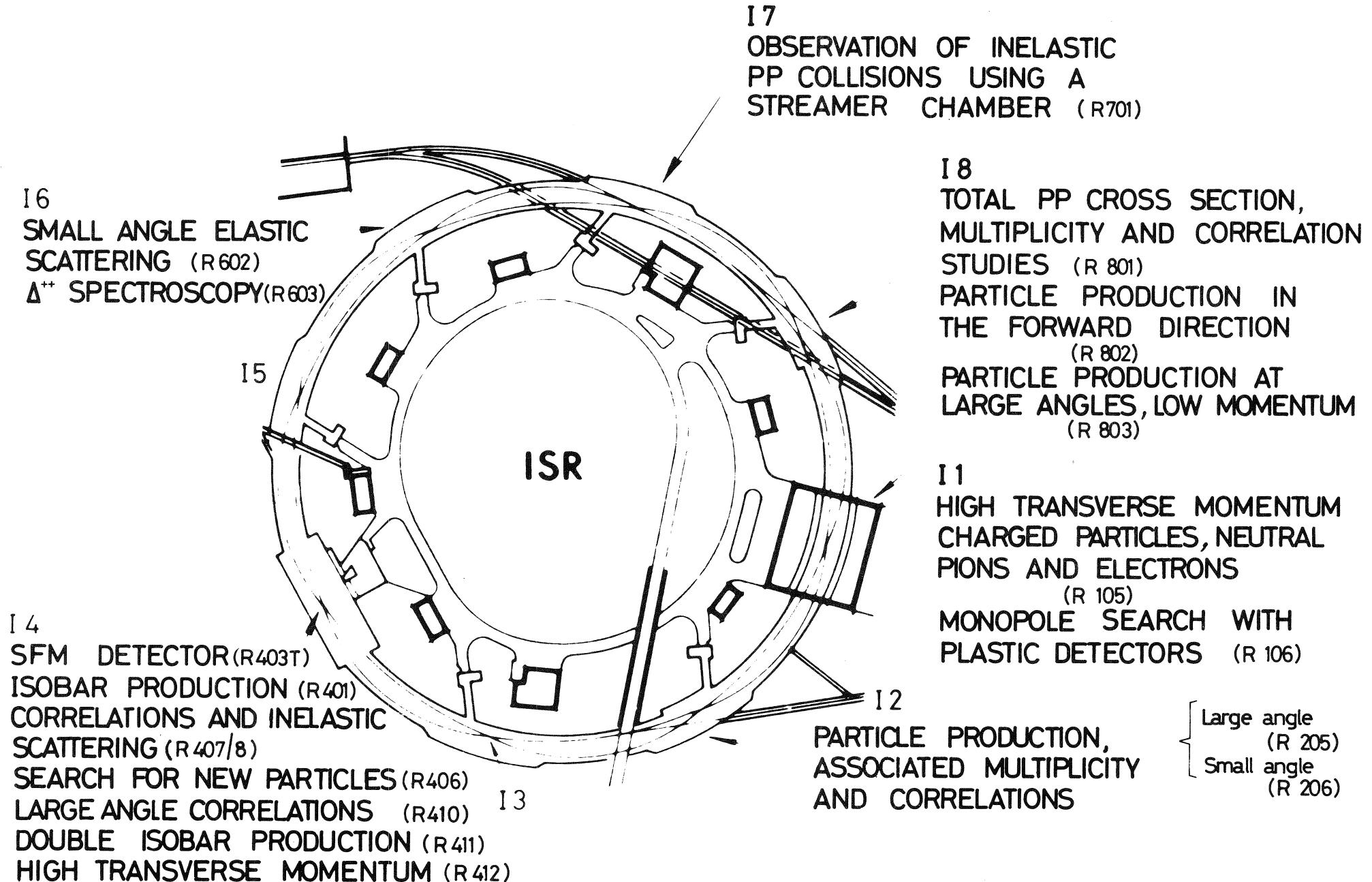
Table 2 (cont'd)

LSR EXPERIMENTS COMPLETED March 1974

Area	Expt. Code	Description of Experiment	Authors	Completion of Data-taking	Status
I-2	R-202	Study of positive and negative particle production in high energy proton-proton collisions at intermediate angles	Argonne-Bologna-Michigan Collaboration: Antinucci, Babcock, Bertin, Bussière, Capi-luppi, D'Agostino-Bruno, Ellis, Giacomelli, Krisch, Maroni, Ratner, Roberts, Rossi, Vannini	September 1971 (Positive particles) May 1973 (Negative particles)	Published
I-2	R-203	Inclusive production of high momentum particles in proton-proton collisions at large angles	The British Universities (R-204) and the Scandinavian Coll.: Alper, Bøggild, Booth, Carroll, Damgaard, Von Dardel, Groves, Jackson, Jarlskog, Kloving, Leistam, Lillethun, Ølgaard-Nielsen, Prentice, Quarrie, Weiss	December 1973	Published, Analysis
I-2	R-204	Measurement of muons with large transverse momentum as a search for the intermediate vector boson	The British Universities: Jeffs, Leechikwong, Lintern, Pitts, Sharp, Sharrock, Gibson, Manning, Smith W.	December 1973	Data Analysis
I-4	R-402	Search for fractionally charged particles	CERN-Munich Coll.: Caldwell, Fabjan, Gruhn, Hyams, Sauli, Zahniser, Bott-Bodenhausen, Stierlin, Rochester, Winstein, Tirler	August 1972	Published
I-4	R-404T	Test to search for heavy baryon isomers	CERN-Hamburg-Vienna Collaboration: Dibon, Flügge, Gottfried, Nefkens, Neuhofer, Niebergall, Regler, Schmidt-Parzefall, Schubert, Schumacher, Winter	May 1973	Published
I-4	R-405	Neutron production at small angles	CERN-Karlsruhe Collaboration: Engler, Flauger, Gibbard, Monnig, Schopper, Bartel, Schmidt	October 1972	To be published

Table 2 (cont'd)  
ISR EXPERIMENTS COMPLETED March 1974

Area	Expt. Code	Description of Experiment	Authors	Completion of Data-taking	Status
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, Strclin, Sulak, Trippe, Webb	Phase I. For Phase II see page 5	Published



Large angle  
 (R 205)  
 Small angle  
 (R 206)

## ISR EXPERIMENTS

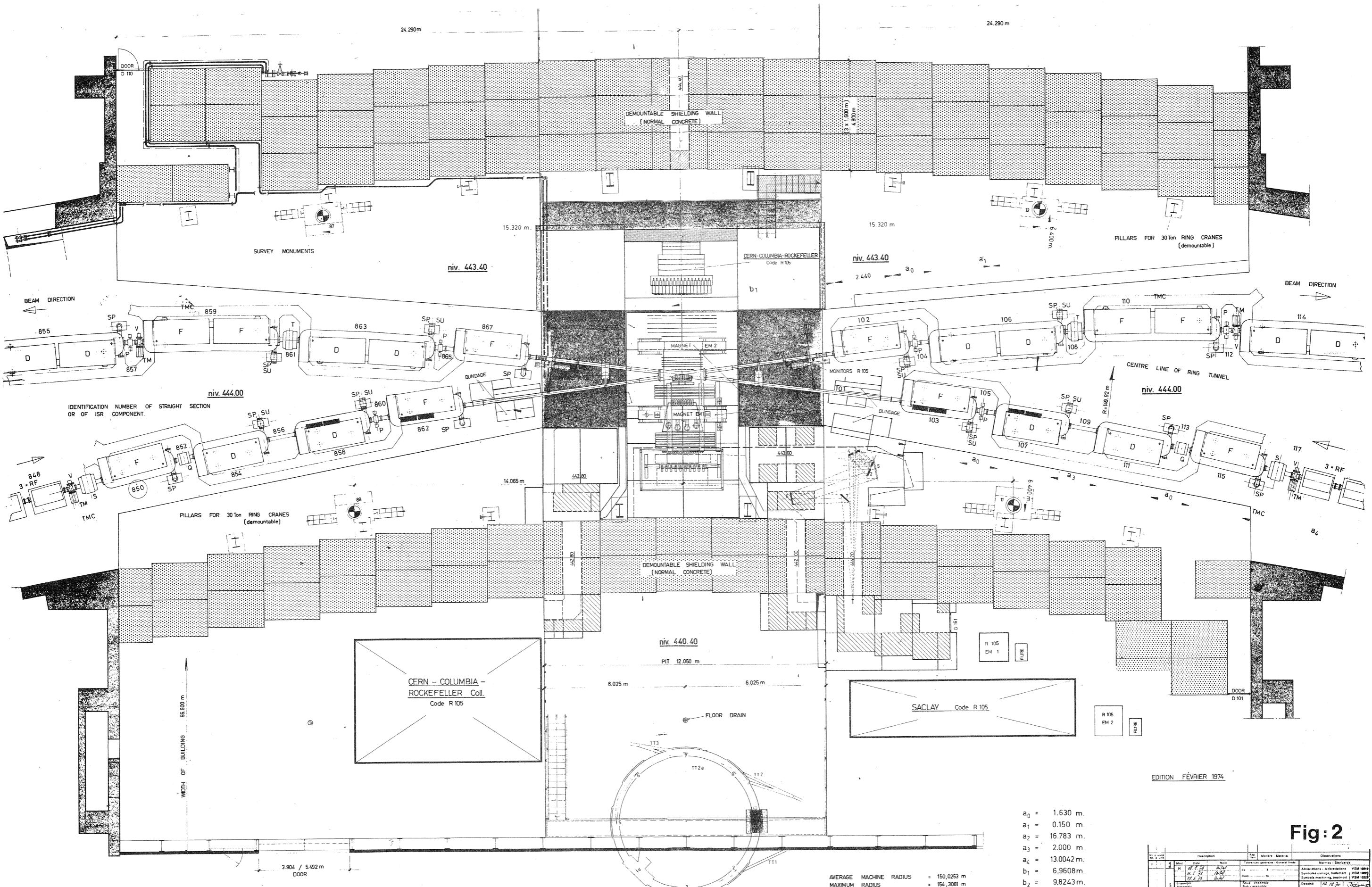
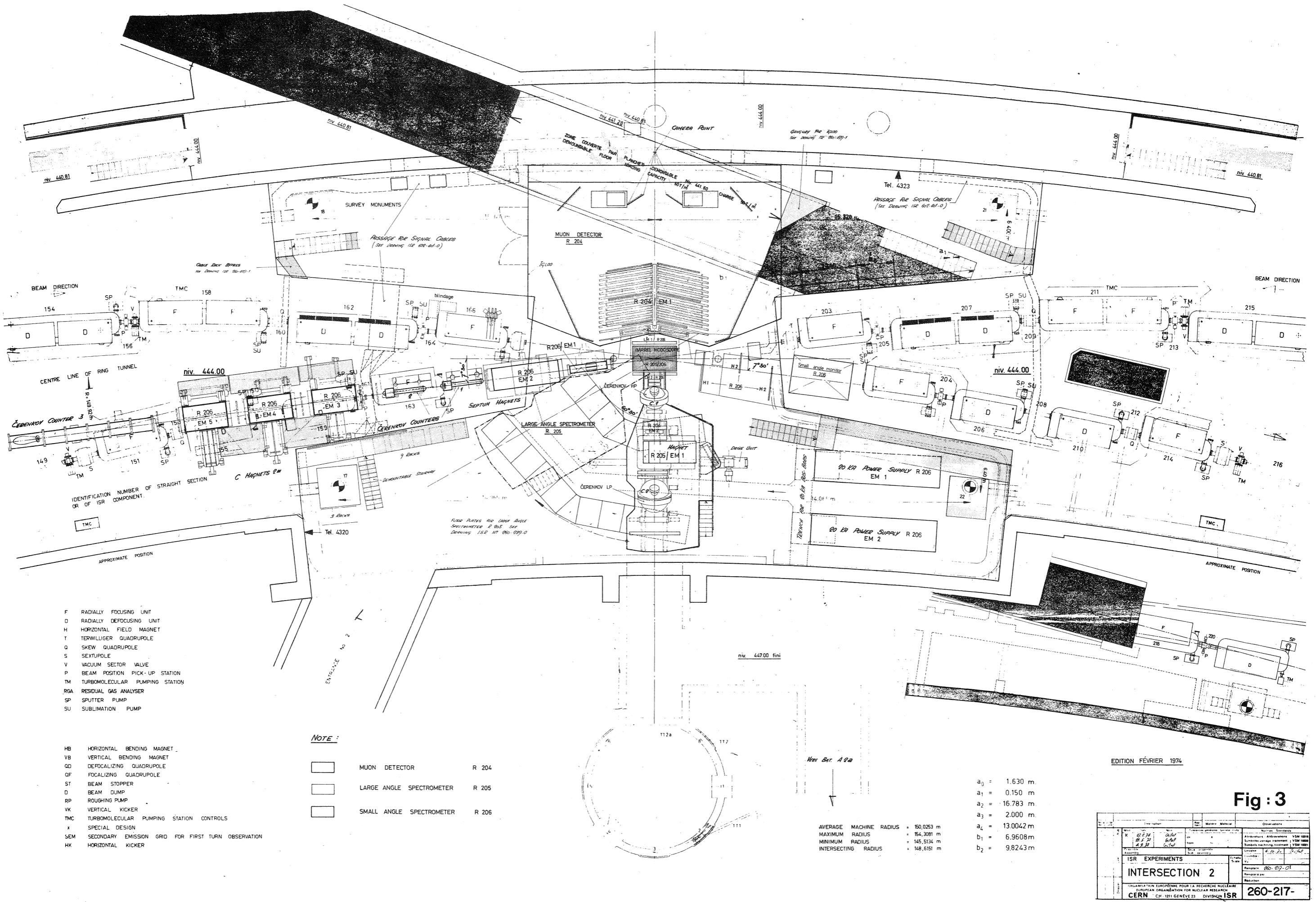
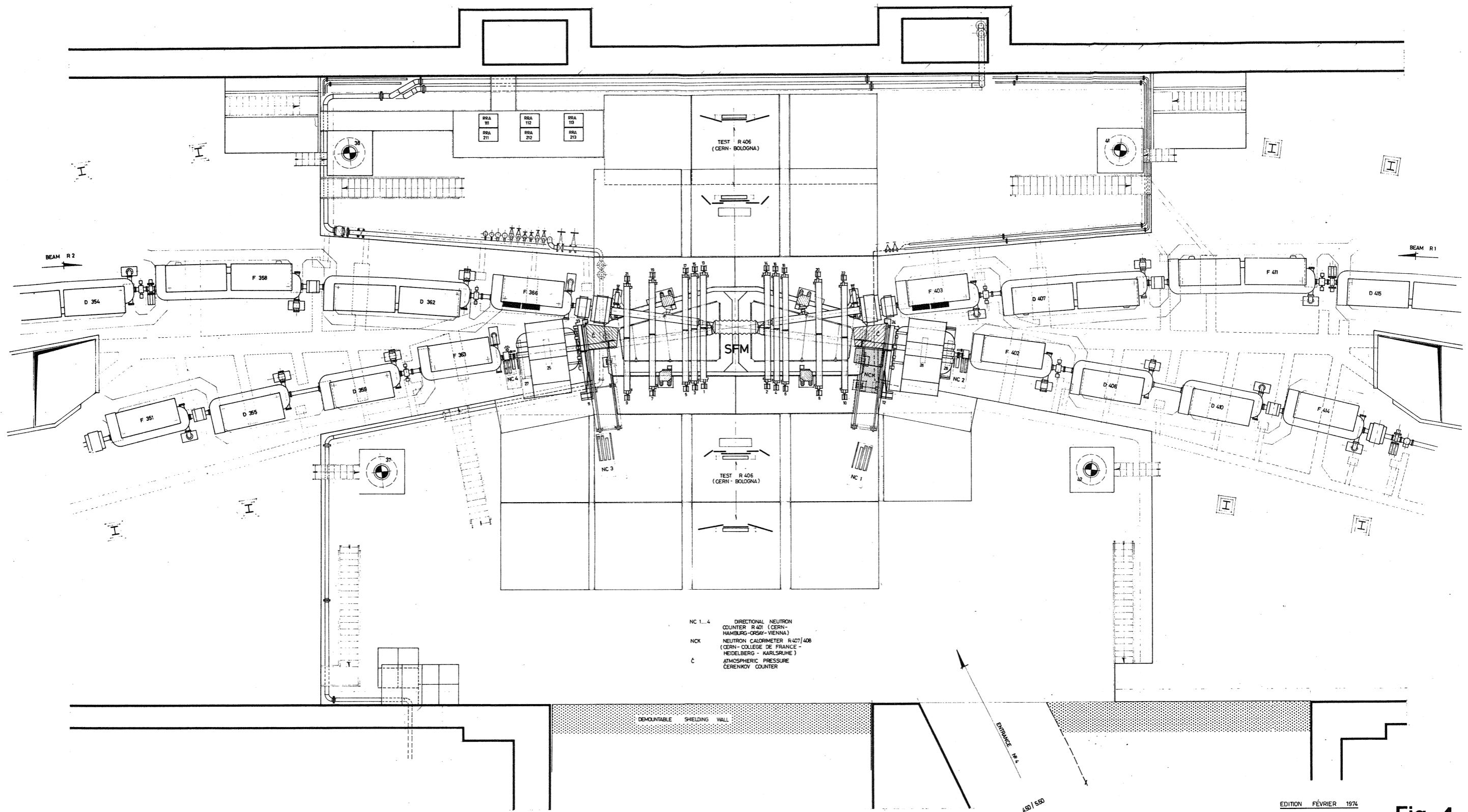


Fig : 2

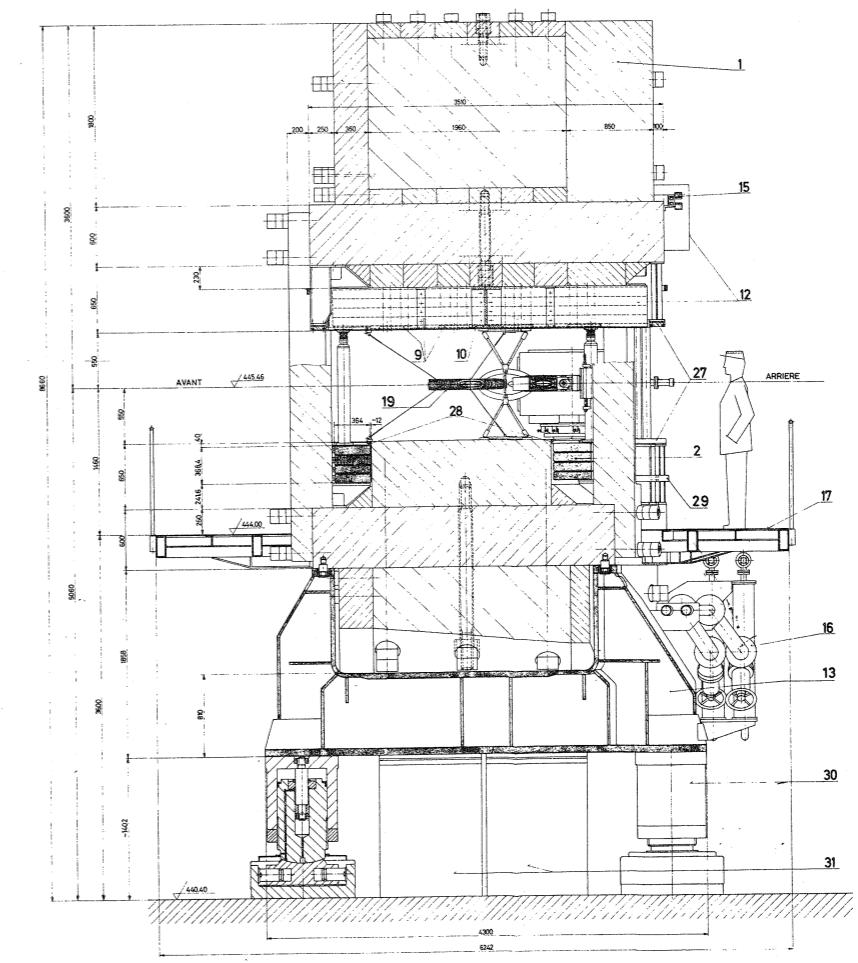
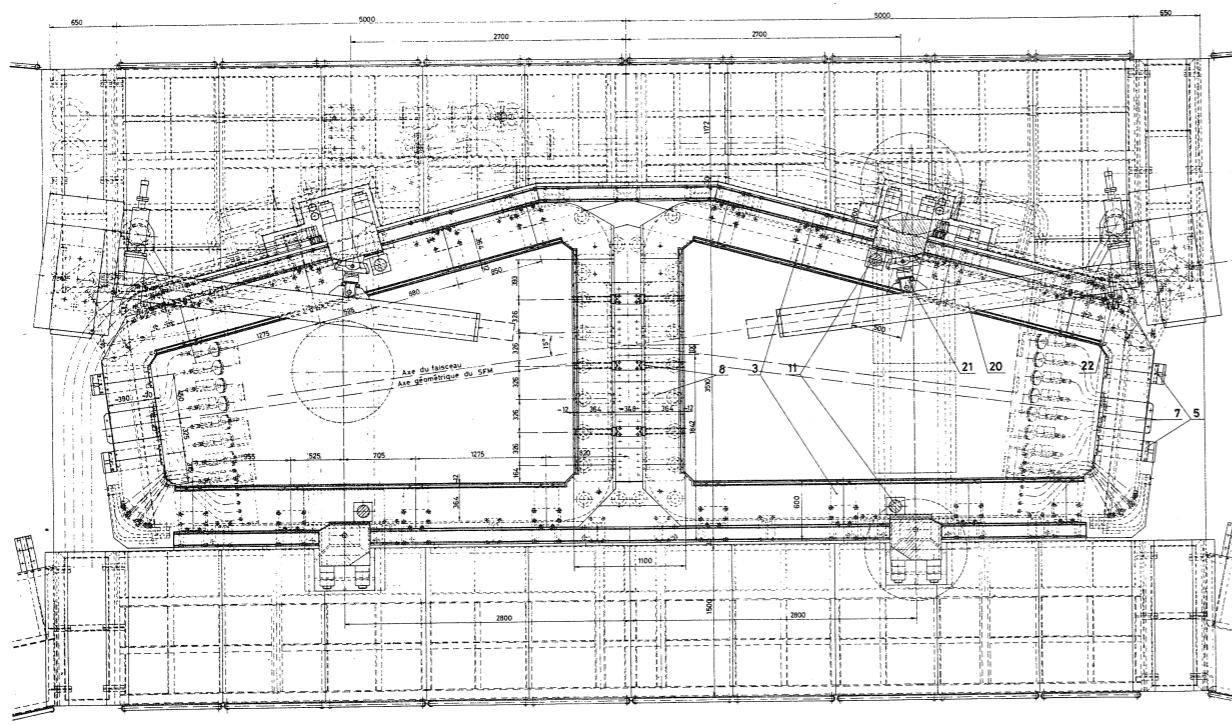
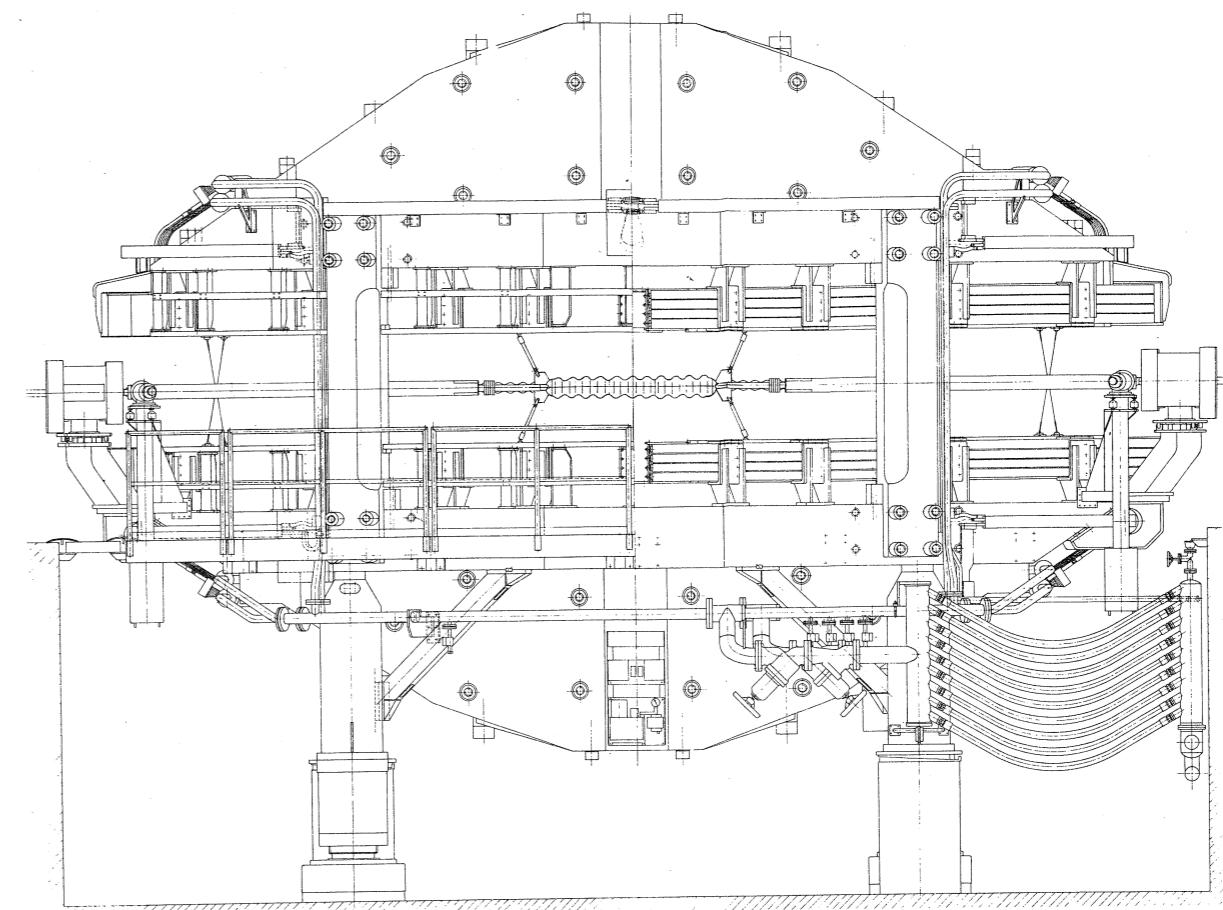
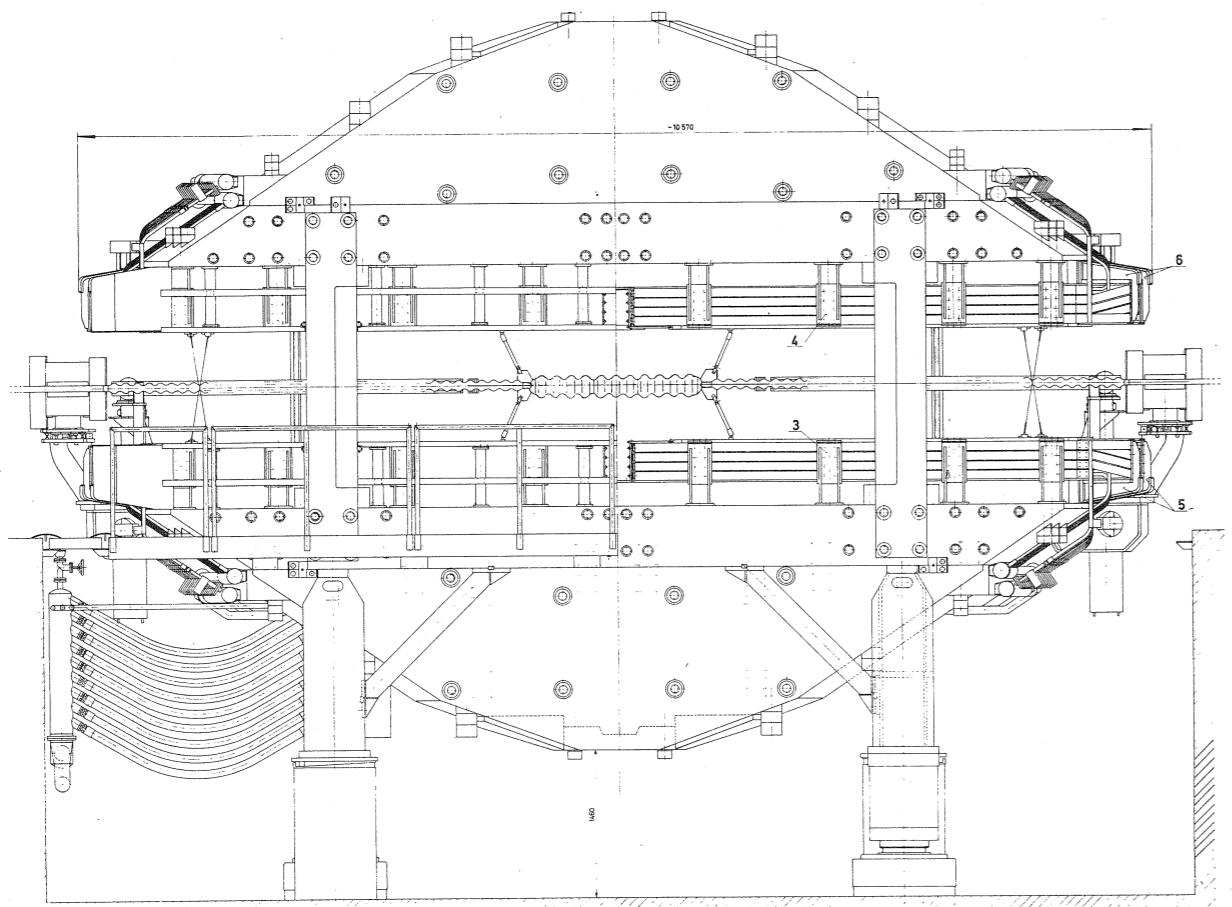
No. de document	Description	Matériel	Matière	Observations
Ref. 85-007-07	H 01.12. 6.025 m	6.025	de ... à ...	Normes Standards
Ref. 85-007-08	H 01.12. 6.025 m	6.025	de ... à ...	Abbreviations - Abbreviations VSM 10200
Ref. 85-007-09	H 01.12. 6.025 m	6.025	de ... à ...	Symboles usages, Instruments   Symbols usage, Instruments   Symbole et instruments VSM 10200
Ref. 85-007-10	H 01.12. 6.025 m	6.025	de ... à ...	Unités unités
Ref. 85-007-11	H 01.12. 6.025 m	6.025	de ... à ...	Dessiné 10.12. 85-007-07
Ref. 85-007-12	H 01.12. 6.025 m	6.025	de ... à ...	Contrôle Vu
Ref. 85-007-13	H 01.12. 6.025 m	6.025	de ... à ...	Réplace 85-007-07
Ref. 85-007-14	H 01.12. 6.025 m	6.025	de ... à ...	Remplace par
Ref. 85-007-15	H 01.12. 6.025 m	6.025	de ... à ...	Reduction
Ref. 85-007-16	H 01.12. 6.025 m	6.025	de ... à ...	
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Ref. 85-007-78	H 01.12. 6.025 m	6.025	de ... à ...	
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Ref. 85-007-95	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-96	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-97	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-98	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-99	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-100	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-101	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-102	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-103	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-104	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-105	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-106	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-107	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-108	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-109	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-110	H 01.12. 6.025 m	6.025	de ... à ...	
Ref. 85-007-111</				





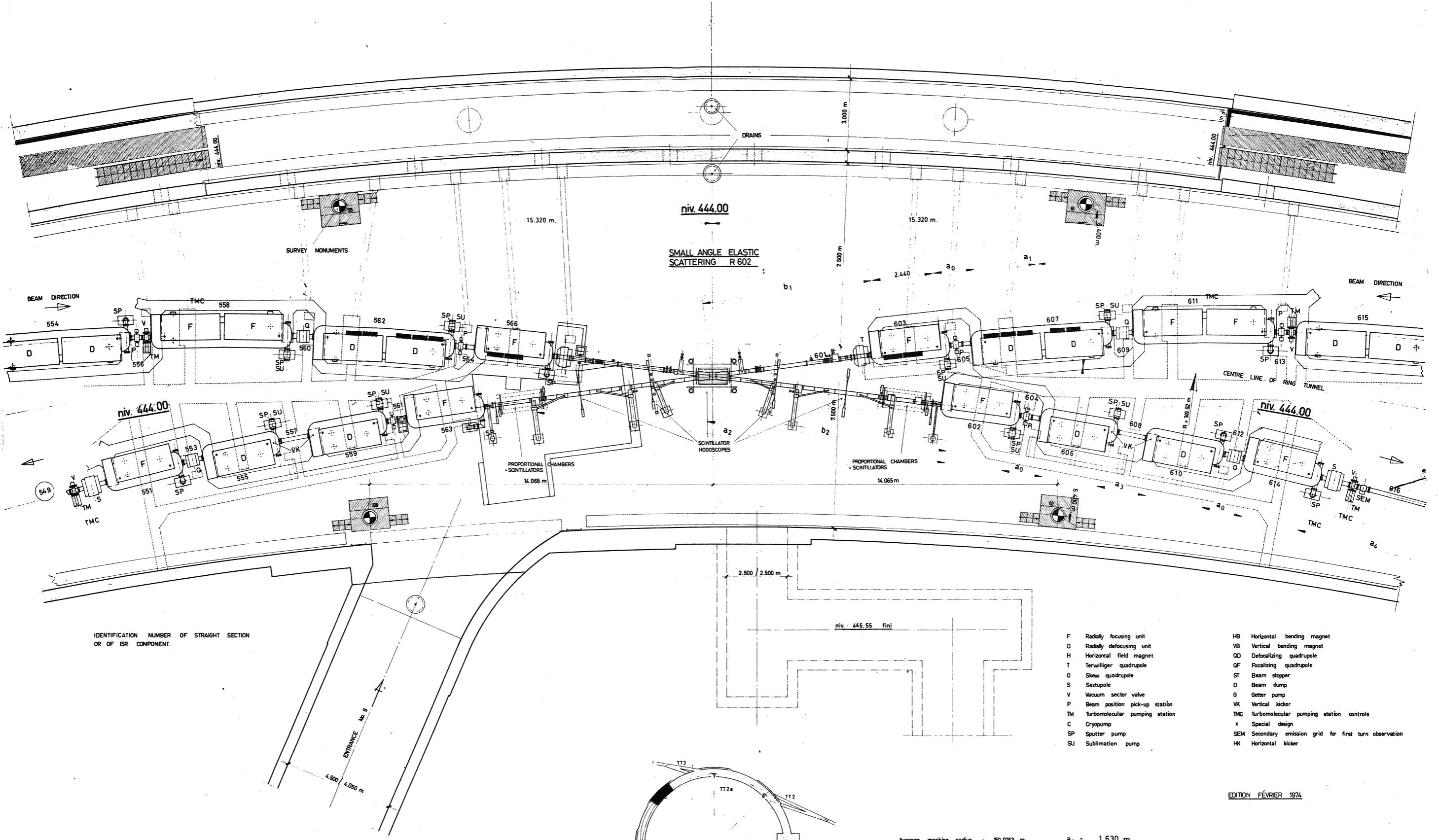
**Fig :4**

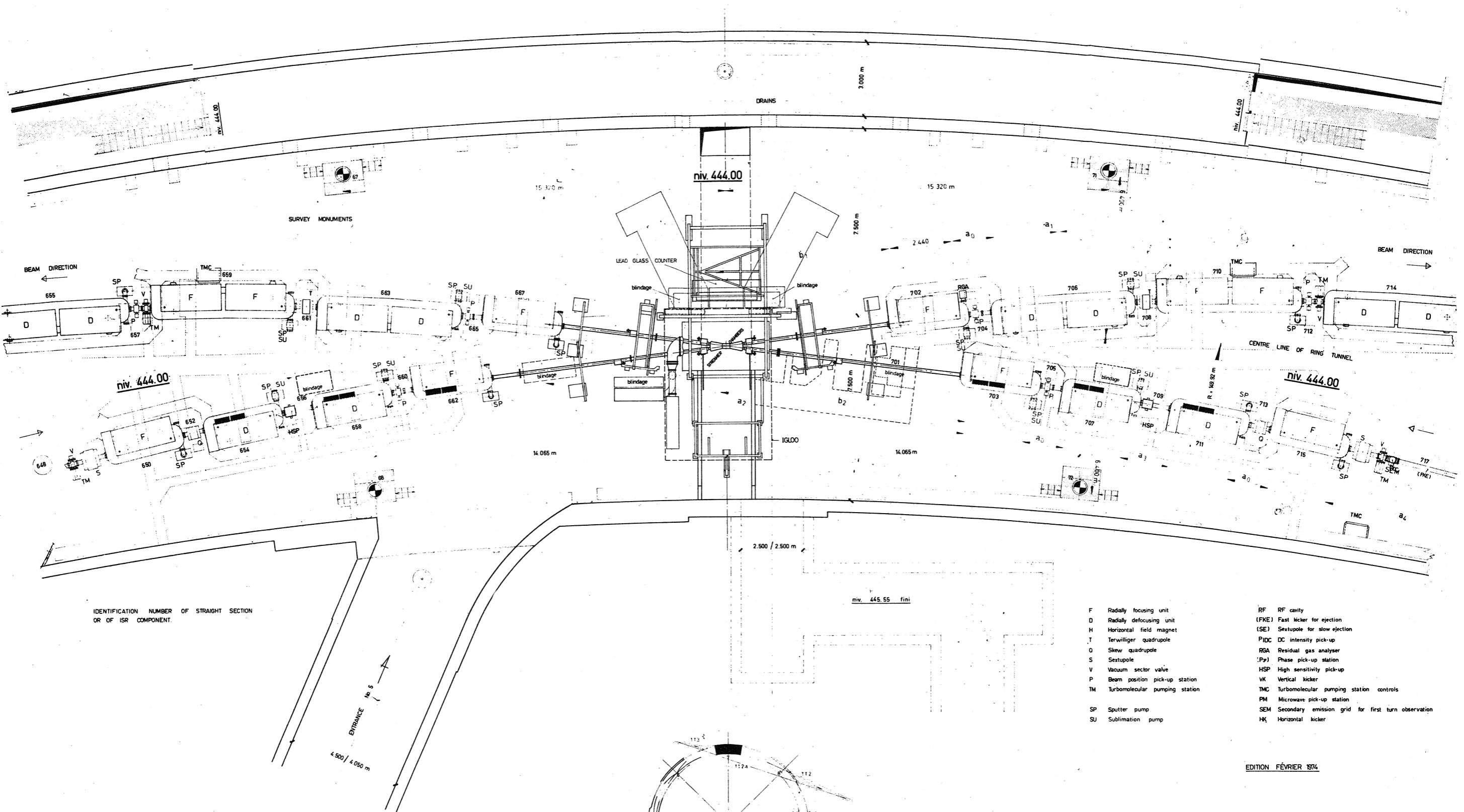
EDITION FÉVRIER 1974



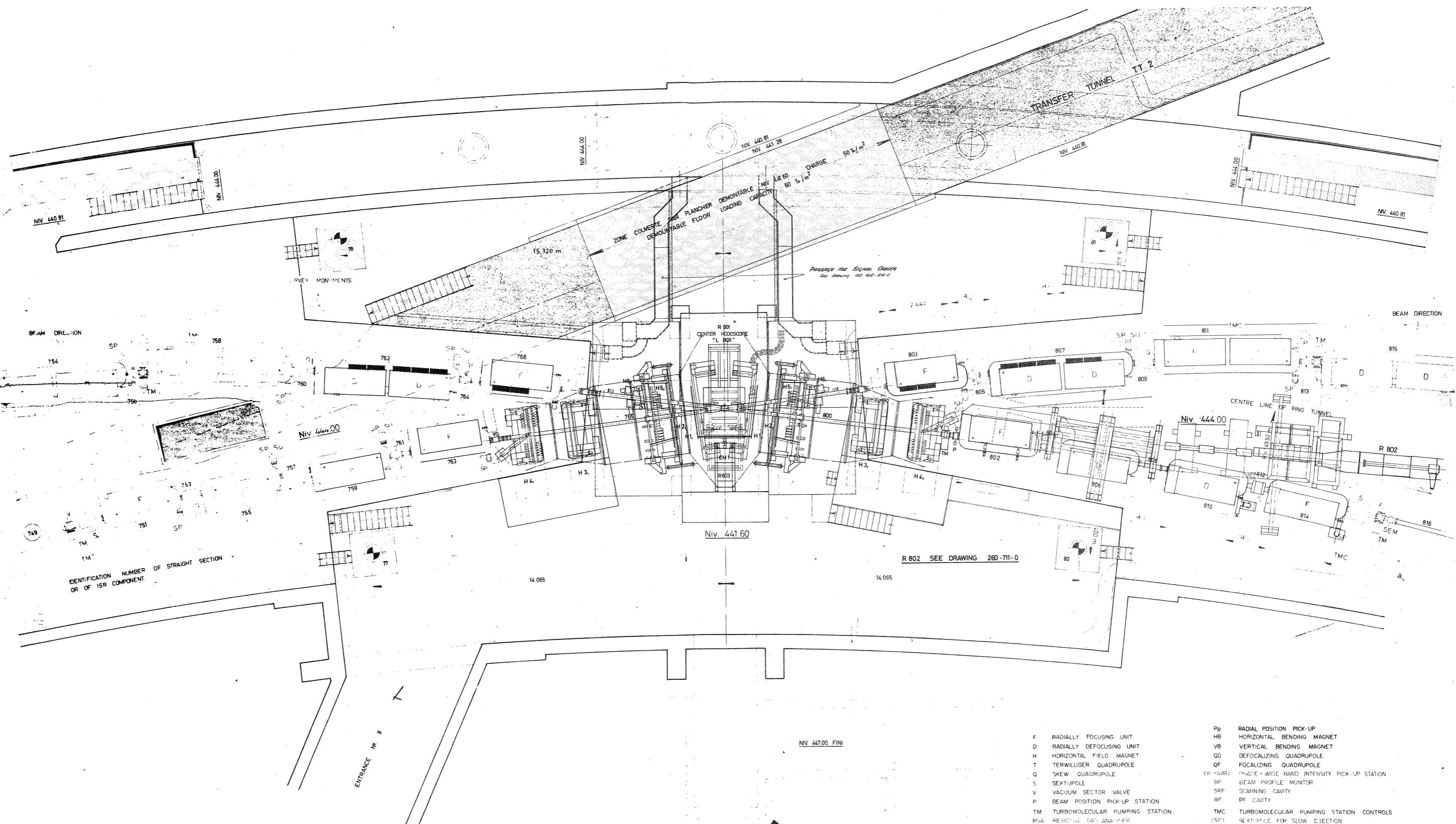
Code	Description
1	Base de machine
2	Base de machine en acier
3	Base de machine en acier
4	Base de machine en acier
5	Base de machine en acier
6	Base de machine en acier
7	Base de machine en acier
8	Base de machine en acier
9	Base de machine en acier
10	Base de machine en acier
11	Base de machine en acier
12	Base de machine en acier
13	Base de machine en acier
14	Base de machine en acier
15	Base de machine en acier
16	Base de machine en acier
17	Base de machine en acier
18	Base de machine en acier
19	Base de machine en acier
20	Base de machine en acier
21	Base de machine en acier
22	Base de machine en acier
23	Base de machine en acier
24	Base de machine en acier
25	Base de machine en acier
26	Base de machine en acier
27	Base de machine en acier
28	Base de machine en acier
29	Base de machine en acier
30	Base de machine en acier
31	Base de machine en acier

Fig : 5





**Fig:7**



AVERAGE MACHINE RADIUS = 150 023 m  
 MAXIMUM RADIUS = 154 3081 m  
 MINIMUM RADIUS = 145 5134 m  
 INTERSECTING RADIUS = 148 6151 m

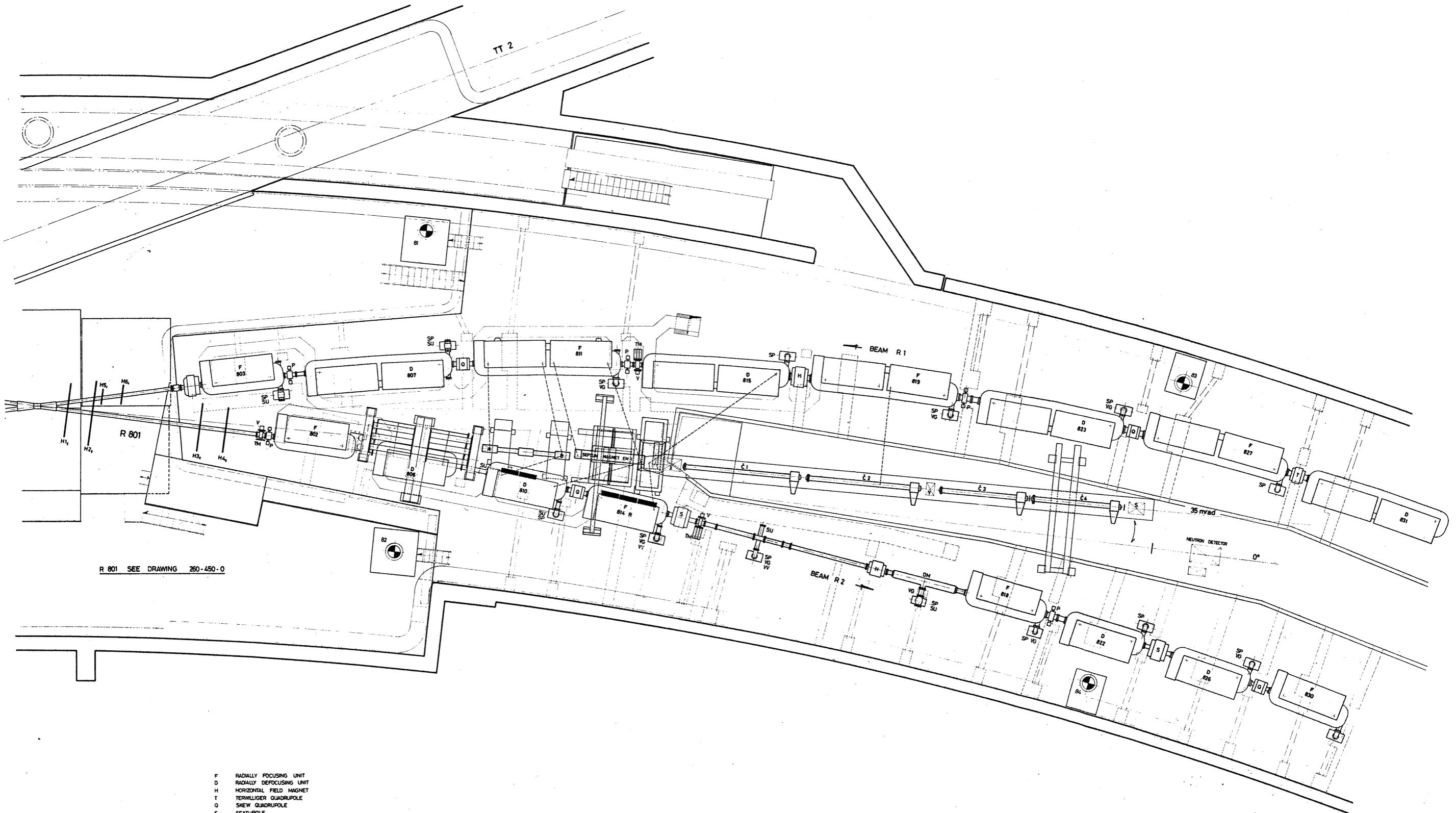
$a_1 = 1530 \text{ m}$   
 $a_2 = 0.150 \text{ m}$   
 $a_3 = 16783 \text{ m}$   
 $a_4 = 2.000 \text{ m}$   
 $a_5 = 13.0042 \text{ m}$   
 $b_1 = 6.3608 \text{ m}$   
 $b_2 = 9.8243 \text{ m}$

EDITION FÉVRIER 1974

Fig : 8

11-23	16-23	17-23	18-23
E	F	G	H
20-732	20-733	20-734	20-735
ISR EXPERIMENTS			
INTERSECTION 8			
CERN - THE EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH			
INTERNATIONAL LABORATORY FOR HIGH ENERGY PHYSICS			
CERN - DIVISION ISR			

260-450



R 801 SEE DRAWING 260-450-0

F RADIALLY FOCUSING UNIT  
 D RADIALLY DEFOCUSING UNIT  
 H HORIZONTAL FIELD MAGNET  
 T TERWILLIGER QUADRUPOLE  
 Q SKEW QUADRUPOLE  
 S SEPTUPOLE  
 V VACUUM SECTOR VALVE  
 P BEAM POSITION PICK UP  
 TM TURBOMOLECULAR PUMP  
 SP SPUTTER PUMP  
 SU SUBLIMATION PUMP  
 VG VACUUM GAUGE  
 VV VENTING VALVE  
 GM RADIALLY DEFOCUSING UNIT WITH MOTORISED JACKS

EDITION FÉVRIER 1974

Fig : 9

Drawing No.		Description	Material	Color	Dimensions	Notes
1	2	Receptacle Assembly	Brass	Black	Dimensions given in mm Absolute, symbols CERN Standards	No. 2 CERN Drawing
		V VVV VVVV VVVV	Brass	Black	A 1 + 20 + 100 + 100 + 100 B 100 C 100 D 100 E 100	260-450-0 E
		Sublimation pump	Brass	Black		
		Radially Defocusing unit	Brass	Black		
		Radially Focusing unit	Brass	Black		
		Horizontal field magnet	Brass	Black		
		Terwilliger quadrupole	Brass	Black		
		Skew quadrupole	Brass	Black		
		Septupole	Brass	Black		
		Vacuum sector valve	Brass	Black		
		Beam position pick up	Brass	Black		
		Turbomolecular pump	Brass	Black		
		Sputter pump	Brass	Black		
		Sublimation pump	Brass	Black		
		Vacuum gauge	Brass	Black		
		Venting valve	Brass	Black		
		Radially Defocusing unit with motorised jacks	Brass	Black		

Drawing No.		Description	Material	Color	Dimensions	Notes
1	2	Receptacle Assembly	Brass	Black	Dimensions given in mm Absolute, symbols CERN Standards	No. 2 CERN Drawing
		V VVV VVVV VVVV	Brass	Black	A 1 + 20 + 100 + 100 + 100 B 100 C 100 D 100 E 100	260-450-0 E
		Sublimation pump	Brass	Black		
		Radially Defocusing unit	Brass	Black		
		Radially Focusing unit	Brass	Black		
		Horizontal field magnet	Brass	Black		
		Terwilliger quadrupole	Brass	Black		
		Skew quadrupole	Brass	Black		
		Septupole	Brass	Black		
		Vacuum sector valve	Brass	Black		
		Beam position pick up	Brass	Black		
		Turbomolecular pump	Brass	Black		
		Sputter pump	Brass	Black		
		Sublimation pump	Brass	Black		
		Vacuum gauge	Brass	Black		
		Venting valve	Brass	Black		
		Radially Defocusing unit with motorised jacks	Brass	Black		

260-711- E

LAYOUT IN 18

ORGANISATION EUROPEENNE POUR LA RECHERCHE NUCLEAIRE  
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