

a) PROPOSALS

PROPOSALS AND LETTERS OF INTENT RECEIVED UP TO
April 18, 1978

CERN/SPSC/78-9
SPSC/G 20
April 18, 1978

No.	Expt. Code	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
P 1	WA 1	CERN-Dortmund-Heidelberg-Saclay	J. Steinberger	High-energy ν interactions	Magnetic muon spectrometer + hadronic shower detector	WANF; Approved by NPRC on 17.4.1974 as described in CERN/SPSC/74-38/M 25; H_2/D_2 target and vertex localiser approved by NPRC on 3.12.1975	SPSC/P 73-1 SPSC/P 73-1/Add.1 SPSC/74-6/P 1/Add.2 SPSC/75-33/P 1/Add.3 SPSC/M 73-11 SPSC/74-20/M 17 SPSC/74-24/M 19 SPSC/74-26/M 21 SPSC/74-38/M 25 SPSC/74-53/M 30 SPSC/75-81/M 53 SPSC/76-91/M 65 SPSC/77-104/M 97
M97	WA 41	CERN-Dortmund-Heidelberg-Saclay	J. Steinberger	Beam dump run to check origin of trimuon and exceptional dimuon events	See above	Approved by RB on 17.11.1977 as WA 41	
P 2	WA 2	Bristol-Geneva-Heidelberg-Orsay-RHEL-Strasbourg	J.-M. Gaillard	1) Elastic scattering and production of strange particle resonances by diffractive excitation in $\bar{\Sigma}^+p$ and \bar{E}^+p interactions between 75 and 150 GeV/c 2) Study of the leptonic decays $\bar{E}^- \rightarrow \Lambda e^- \bar{\nu}$, $\bar{E}^- \rightarrow \Sigma^0 e^- \bar{\nu}$ and $\Sigma^+ \rightarrow \Lambda e^+ \bar{\nu}$	Hyperon beam; MWPC (backward) + forward spectrometer	WA Study of leptonic decays approved by NPRC on 12.6.1974	SPSC/P 73-2 SPSC/74-32/P 2/Add.1 SPSC/I 73-11 SPSC/74-48/M 28 SPSC/77-114/M 102

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P 3		CERN-Hamburg-Karlsruhe-Oxford-RHEL-Westfield College	K. Winter	Study of inelastic ν interactions using a counter set-up	Target-calorimeter and air-cored muon spectrometer	WANF Not recommended by SPSC on 26.2.1975	SPSC/F 73-3 SPSC/74-8/P 3/Add.1 SPSC/75-7/P 3/Add.2 SPSC/I 73-23 SPSC/74-26/M 21 SPSC/74-40/M 26 SPSC/74-98/M 37 SPSC/75-11/M 44
P 4		Bari-Caen-CERN-Liverpool-Milan	B. French	<ol style="list-style-type: none"> 1) Dependence of high p_t events on the incident particle (π^-, K^+, p^+) 2) Composition of the events as a function of p_t and the nature of the high p_t particle on which one triggers 3) Occurrence of jet like correlations, suggestive of parton-parton scattering 4) Jet cross section, multiplicity, composition and mass distribution 5) Existence of massive objects such as e.g. heavy "fire-balls", resonances, charmed particles, etc. Negative beam at 150 GeV/c 	MWPC magnetic vertex detector and forward lever arm with C-counters and drift chambers	Not recommended by SPSC on 24.4.1974 for WA	SPSC/74-3/P 4 SPSC/74-46/P 4/Add.1 SPSC/I 73-50

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P 5	WA 5	Indiana University Saclay	P. Borgeaud	Measurement in the 20-120 GeV/c range, of two-body and quasi two-body baryon exchange reactions for $ u \leq 1$ (GeV/c) ² ; π^{\pm} , K^{\pm} and \bar{p} on unpolarized and polarized protons	Two spectrometers ("Mimosas" and "Goliath") with hodoscopes and MWPC vertex detector	Approved by NPRC on 17.7.1974 for backward scattering part with unpolarized protons. On common beam line with P 8 (H3). Withdrawn; Replaced by P 58 = WA 11	SPSC/74-10/P 5 SPSC/74-41/P 5/Add.1 SPSC/76-3/P 58 (EEC/74-24) (EEC/75-12)
P 6	NA 1	Frascati-Milan-Pisa-Rome	L. Foà	Measurement of η' lifetime; Search for an η_c signal; Spectroscopy of new heavy particles in hadronic channels with charged particles and photons	Forward magnetic spectrometer with 5 standard PS beam transport magnets. Vertex detector with MWPC inside magnet	EHN1 Forw. part without vertex magnet approved by NPRC on 12.3.1975	SPSC/74-15/P 6 SPSC/74-23/P 6/Add.1 SPSC/74-83/P 6/Add.2 SPSC/76-23/P 6/Add.3 SPSC/I 73-36 SPSC/75-20/M 47

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P 7	WA 3	Amsterdam-CERN-Cracow-MPI Munich-Oxford-RHEL	P. Weilhammer	Study of the quasi-two-body hadron reactions $\pi^- p \rightarrow (\pi^+\pi^-)n$, $(K^+K^-)n$, $(p\bar{p})n$, $\pi^+ p \rightarrow (\pi^+\pi^+)n$, $K^- p \rightarrow (K^-\pi^+)n$, $\pi^+ p \rightarrow (K^+K^0)p$ and $K^- p \rightarrow (K_S^0\pi^-)p$ over a wide kinematic range and at energies up to 80 GeV	Modified version of CERN-Munich spectrometer; beam spectrometer; target with 4π anticoincidence counters; forward spectrometer with MWPC, Cerenkov hodoscopes and trigger	WA Approved by NPRC on 12.6.1974. Downstream of P 9 in H1	SPSC/74-14/P 7 SPSC/77-29/P 7/Add.1 SPSC/I 73-47 SPSC/74-56/I 62 SPSC/74-55/M 31
P 8	WA 6	CERN-Padova-Trieste-Vienna	G. Fidecaro	Measurement of polarization in pp and πp elastic scattering at large momentum transfer in 50-150 GeV/c range	Polarized target with magnet for recoil particle analysis by MWPC. Forward spectrometer with MWPC, threshold Cerenkov counter and hodoscope	WA (H1) Approved by NPRC on 4.9.1974, on common beam line (H3) with P 5	SPSC/74-17/P 8 SPSC/74-54/P 8/Add.1 SPSC/I 73-9 SPSC/76-4/M 54 (EEC/74-24) (EEC/75-12)

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P 9	WA 7	CERN-Copenhagen-Genova-LAPP (Annecy)- Univ. Coll. London-Oslo	V. Gracco	<p>$\pi^- p \rightarrow \pi^- p$ and $pp \rightarrow pp$ would be measured in the angular range 20° to 90° cm with incident momenta 20, 40, 60 and 80 GeV/c. In the forward region one gets data on $K^- p \rightarrow K^- p$, $\bar{p} p \rightarrow \bar{p} p$ ($\rightarrow \pi^- \pi^+$ and $K^- K^+$)</p>	AEG magnet (+ one C magnet at higher energies). MWPC + Cerenkov counter for forward particles. MWPC or drift chamber for recoil protons	WA (H1) Approved by NPRC on 4.9.1974. Upstream of P 7 in H1	SPSC/74-28/P 9 SPSC/74-49/P 9/Add.1 SPSC/74-61/P 9/Add.2 SPSC/76-13/I 80 SPSC/74-109/M 39 SPSC/74-110/M 40 SPSC/76-12/M 55 (PHYS III/74-47)
P 10	WA 4	Bonn-CERN-Glasgow-Lancaster-Manchester-Orsay-Ecole Polytechnique (Palaiseau)-Paris VI-RHEL-Sheffield	F. Richard	Photoproduction and electroproduction of hadrons for incident particle energies from 10 to 60 GeV (Charm search)	Omega with tagged photon beam	WA Approved by NPRC on 12.6.1974 for tagged photon particle. Charmed particle search approved by RB on 15.4.1976	SPSC/74-29/P 10 SPSC/76-17/P 10/Add.1 SPSC/76-87/M 64 SPSC/77-112/M 101 SPSC/I 73-8 (EEC/75-39) (EEC/75-43)

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P 11	WA 10	Geneva-Lausanne	M. Martin	Study of $K^+p \rightarrow K_S^0\pi^+p$ and reactions of similar topology with high statistics (Zweig's rule test, Charmed events).	Recoil proton detector with MMPC and scintillation counter. Forward arm without magnet with MMPC and γ -detector	WA Approved by NPRC on 12.3.1975	SPSC/74-31/P 11 SPSC/I 73-43 SPSC/74-114/M 41 SPSC/75-6/M 43 SPSC/76-25/M 56 SPSC/77-52/M 81 SPSC/77-103/M 103
P 12		CERN-Orsay-Oxford	L. Dick	Spin-dependent effects in hadron-proton interactions: measurement of polarization in πp , Kp and pp elastic and inclusive scattering (or inelastic "diffractive" processes) between 25 and 100 GeV/c	Polarized target; recoil spectrometer with \hat{C} magnet, hodoscopes and Cerenkov counter with TOF; forward arm with hodoscopes	WA Not recommended by SPSC on 24.4.1974	SPSC/74-44/P 12 SPSC/75-9/P 40 SPSC/I 73-33 SPSC/74-111/I 66

No.	Expt. Code	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
P 13		Athens-Democritus- Liverpool-Vienna	H. Muirhead	To take 50.000 pictures at antiproton momenta of 25,50 and (hopefully) 100 GeV/c (i.e. 150.000 pictures). The aim is to test the feasibility of annihilation studies at high momenta and to examine inclusive and exclusive $\bar{p}p$ reactions, especially in relation to pp data at corresponding energies	BEBC	WA Merged with P 22 + P 47; See P 63	SPSC/74-60/P 13 SPSC/I 73-32
P 14		Brussels-CERN-Genova- Mons	J.B. Kinson	500.000 pictures exposure in 70 GeV/c K^+ separated beam, with external particle identifier (EPI). Systematic study of hadronic reactions	BEBC + EPI	WA Merged with P 17 + P 32 + P 56; See P 62	SPSC/74-47/P 14 SPSC/I 73-19 SPSC/I 73-21

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P 15		Saclay	L. van Rossum	Measurement of polarization parameter or target asymmetry in inclusive πp and pp reactions at large transverse momentum. Momentum region from 50 to 150 GeV/c	Polarized target, analyzing magnet, forward- and side arm detectors. P.T. magnet and detectors of side arms from proposal P 8	EJINI Not recommended by SPSC on 2.4.1975	SPSC/74-71/P 15 SPSC/I 73-9 SPSC/I 73-39 SPSC/74-25/M 20
P 16	WA 25	Amsterdam-Bologna-Padova-Pisa-Saclay-Turin	A.G. Tenner	ν reactions in D_2 ; study of weak hadronic current with protons and neutrons separately. 1 Mpx	BEBC (D_2)	WANF WB with 400 GeV p's then NB; WB-part approved by RB on 26.8.1976	SPSC/74-72/P 16 SPSC/74-105/P 16/Add.1 SPSC/76-5/P 16/Add.2 SPSC/I 73-56 SPSC/74-9/I 56/Add.1 SPSC/77-93/M 92

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P 17		Athens-Democritus- Liverpool-Nijmegen- Tel-Aviv	R.T. Van de Walle	400 k pictures with K^+ at 70 GeV/c. Study of charge multiplicities, topological cross sections, exclusive and inclusive reactions	BEBC (+ EPI)	WA Merged with P 14 + P 32 + P 56; See P 62	SPSC/74-73/P 17 SPSC/I 73-10 SPSC/74-75/M 35
P 18	NA 2	CERN-Daresbury-DESY- Freiburg-Kiel- Lancaster-LAPP(Annecy)- Liverpool-Oxford- Rutherford-Sheffield- Shrivenham-Turin- Wuppertal	H.E. Stier	Test of scale invariance in muon-nucleon scattering at large momentum transfer, followed by programme of muon physics	Forward spectro-meter	NA (EHN2) Forward spectro-meter part approved by NPRC on 12.3.1975	SPSC/74-78/P 18 SPSC/I 73-15 SPSC/I 73-15/Rev SPSC/75-62/M 51 SPSC/76-76/M 59
P 18/ Add.1	NA 9	CERN-DESY-Freiburg- Kiel-Lancaster-LAPP- Munich-Liverpool-Oxford- Rutherford-Sheffield- Shrivenham-Turin- Wuppertal	H.E. Stier	Study of Final states in deep inelastic lepton scattering	As P 18, with vertex detector	NA (EHN2) Approved by RB on 16.2.1978	SPSC/77-113/P 18/Add.1

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P 19	NA 4	CERN-Dubna-Munich-Saclay	C. Rubbia	Inclusive muon scattering on hydrogen and deuterium to the highest energies and four-momentum transfers available	H ₂ -target (50 m long) surrounded by magnetized iron torus	EHN2 Reduced version approved by NPRC on 7.5.1975	SPSC/74-79/P 19 SPSC/74-103/P 19/Add.1 SPSC/74-108/P19/Add.2 SPSC/74-120/P 19/Add.3 SPSC/74-120/P 19/Add.3 corr. SPSC/77-12/P 19/Add.4 SPSC/74-82/M 36 SPSC/77-40/M 78
P 20		Orsay	B. Dauteray	120 k pictures with π^+ at 110 GeV/c. 4-C physics; inclusive production of K^0 , Λ , $\bar{\Lambda}$, γ , π^0 etc.; correlations and cluster production in high multiplicity events	BEBC	WA Withdrawn	SPSC/74-80/P 20 SPSC/I 73-24 SPSC/I 73-25

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P 21	WA 8	Birmingham	J.D. Dowell	Study of rare meson system in K^+p collisions at 18 GeV/c and 32 GeV/c	Omega with RF separated beam	WA Approved by NPRC on 22.1.1975	SPSC/74-84/P 21 SPSC/74-50/I 61
P 22		Brussels-Mons	J. Lemonne	2 x 200 k pictures (1) and (2) with \bar{p} at 70 GeV/c. Study of multiparticle final states and properties of annihilation reactions.	BEBC + EPI (1) BEBC + TST + EPI (2)	WA Merged with P 13 + P 47; See P 63 and P 68/Add.1	SPSC/74-87/P 22 SPSC/I 73-19

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P 23	WA 19	Aachen-Konn-CERN-Oxford	D.C. Cundy	Total and differential cross sections of ν and $\bar{\nu}$ on Neon; neutral currents. 250 kpx	BEBC (Ne) + EMI	WANF (NB) Approved by RB on 26.8.1976	SPSC/74-88/P 23 SPSC/I 73-12 SPSC/75-66/M 52 SPSC/76-84/M 61 SPSC/77-92/M 91
P 24	NA 3	CERN-Collège de France-Ecole Polytechnique (Palaiseau)-Orsay-Saclay	A. Michelini	Hadronic production of high- p_T leptons and hadrons	Forward spectrometer e- γ detectors, hadron calorimeter	EHNI Approved by NPRC on 12.3.1975	SPSC/74-90/P 24 SPSC/77-4/M 71 SPSC/77-57/M 83

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P 25	WA 21	Aachen-Bonn-CERN- MPI Munich-Oxford	G. Myatt	ν and $\bar{\nu}$ interactions in hydrogen. 500 kpx	BEBEC (H ₂) + EMI	WANF (WB) Approved by RB on 26.8.1976	SPSC/74-91/P 25 SPSC/I 73-28 SPSC/I 73-40 SPSC/75-66/M 52 SPSC/76-111/M 69 SPSC/77-94/M 93
P 26	WA 9	Clermont-Ferrand- Leningrad-Lyon- Uppsala	T. Ekelöf	High precision study of elastic scattering in Coulomb interference region	Ionisation chamber recoil spectro- meter; forw. magnetic spectro- meter	WA Approved by NPRC on 22.1.1975 for minimum programme	SPSC/74-94/P 26 SPSC/75-34/P 26/Add.1 SPSC/77-87/P 90 SPSC/74-56/I 62 SPSC/74-55/M 31

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P 27		CERN-Imperial College-Oxford	B.G. Pope	Production of muons and muon pairs in hadronic interactions	Tungsten beam dump; iron shield; spectrometer with toroidal magnets	EHNI	SPSC/74-96/P 27 SPSC/I 73-3 SPSC/I 73-34
P 28		Pavia-Torino	G. Rinaudo	pp-interactions below 100 GeV/c (2 x 50 kpx)	BEBC	WA	SPSC/74-104/P 28 SPSC/76-18/P 28/Add.1

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P 29		Bari-CERN-Liverpool-Milan	B. French	Detailed study of hadronic interactions producing high- p_T particles	Vertex detector; forward lever arm	EHNI SPSC decision deferred on 26.2.75	SPSC/74-112/P 29 (D.Ph.II/TEC 74-1) (D.Ph.II/PHYS 75-1)
P 30 + P 33	WA 24	Bari-Birmingham-Brussels-Ecole Polytechnique (Palaiseau)-Univ. Coll. London-RHEL-Saclay	W. Venus	ν and $\bar{\nu}$ interactions in hydrogen filled track sensitive target, 500 kpx	BEBC + TST + EMI	WANF (WB) Approved by RB on 26.8.1976	SPSC/74-116/P 30 SPSC/75-63/P 30/Add.1 SPSC/75-64/P 30/Add.2 SPSC/76-56/P 30/Add.3 SPSC/76-57/P 30/Add.4 SPSC/76-72/P 30/Add.5 SPSC/76-72/P 33/Add.3 SPSC/74-119/P 33 SPSC/I 73-13 SPSC/77-19/M 74

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P 31 P 46	WA 14	Bari-CERN-Ecole Polytechnique (Palaiseau)- Milan-Orsay	A. Pullia	Leptonic processes, dilepton events, νe interactions on nucleons and coherent production of vector mesons induced by ν	GCM + EMI	WANF (WB) Approved by RB on 8.7.1976	SPSC/74-117/P 31 SPSC/75-27/P 46 SPSC/75-74/P 31/Add.1 /P 46/Add.2 SPSC/76-9/P 31/Add.2 /P 46/Add.3 SPSC/75-72/P 46/Add.1 SPSC/76-45/P 46/Add.4 /P 52/Add.1 SPSC/76-103/P 46/Add.5 /P 53/Add.1 SPSC/I 73-6 SPSC/I 73-44 SPSC/77-107/M 99 SPSC/77-120/M 104
P 32	LPNHE Paris	M. Baubillier J. Laberrigue	$K^{\pm} p$ - interactions at 70 GeV/c. 600 kpx	BERC + EPI	WA Merged with P 14 + P 17 + P 56; See P 62	SPSC/74-118/P 32 SPSC/I 73-14	

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P 33		Ecole Polytechnique (Palaiseau)-Saclay	P. Petiau	Search for charmed particles; study of neutral current channels with ν and $\bar{\nu}$. 500 kpx	BEBC + TST	WANF (WB) See also P 30	SPSC/74-119/P 33 SPSC/75-42/P 33/Add.1 SPSC/76-36/P 33/Add.2 SPSC/76-72/P 33/Add.3 SPSC/I 73-26 SPSC/I 73-51 SPSC/77-19/M 74
P 34 P 39	WA 15	Aachen-Bergen-Brussels- Univ. College London- Strasbourg	J. Morfin	Study of purely leptonic and other rare $\bar{\nu}$ interactions	GGM + EMI	WANF (WB) Approved by RB on 8.7.1976	SPSC/74-122/P 34 SPSC/75-5/P 39 SPSC/75-73/P 34/Add.1 SPSC/I 73-5 SPSC/I 73-17 SPSC/I 73-20 SPSC/74-2/I 59

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 35		Aachen-CERN-Oxford	K. Schultze	ν -interactions with protons and neutrons 500 kpx	BEBC (D ₂) + EMI	WANF (NB)	SPSC/74-123/P 35 SPSC/75-66/M 52
P 36		Aachen-Bari-Brussels- CERN-Univ. College London	W. Van Doninck	Detailed study of muonless events induced by ν interactions on protons and neutrons. 500 kpx	BEBC (H ₂ + Ne) + TST (D ₂) + EMI	WANF (NB)	SPSC/74-126/P 36 SPSC/I 73-13

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P 37	NA 5	Bari-Cracow-Liverpool-Munich	P. Seyboth	Search for "charmed" mesons and baryons	Vertex detector magnet with streamer chamber; downstream lever arm with streamer chamber, trigger spectrometer	EHNI Approved by NPRC on 4.6.1975	SPSC/75-1/P 37 SPSC/75-38/P 37/Add.1 SPSC/76-62/P 37/Add.2 SPSC/77-50/P 37/Add.3 SPSC/74-86/I 65 SPSC/77-18/M 73 SPSC/77-80/M 87
P 38	WA 26	Glasgow-Paris VI-Rutherford-Saclay	R. Barloutaud	$\bar{K} p$ interactions in BEBC at 45 and 70 GeV/c. 400 kpx	BEBC + EPI	WA Approved by RB on 26.8.1976	SPSC/75-2/P 38 SPSC/I 73-18

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P 39		Aachen	J. Morfin	Purely leptonic and other rare $\bar{\nu}$ interactions in propane-freon mixture. 600 kpx	GGM	WANF See also P 34	SPSC/75-5/P 39 SPSC/75-73/P 39/Add.1 SPSC/74-2/I 59
P 40		CERN-IPN Orsay-Oxford	L. Dick	Spin effect and differential cross sections in elastic hadron-hadron scattering	Solenoid spectrometer; polarized proton target; position sensitive scintillation counters forward	EHN1 Not recommended by SPSC on 2.4.1975	SPSC/75-9/P 40 SPSC/74-44/P 12 SPSC/I 73-33 SPSC/74-111/I 66

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	Reference
P 41		Cambridge-Michigan State	J.G. Rushbrooke	$\bar{p}p$ annihilation at 150 GeV/c	RCBC; downstream particle identification	Ehni	SPSC/75-13/P 41
P 42		CERN-Heidelberg-Orsay-Oxford-Rutgers-Stockholm	L. Montanet	Study of multihadron events involving identified particles	RCBC, ISIS, Cerenkov and downstream spectrometer	Ehni Part A approved by RB on 24.6.1976	SPSC/75-15/P 42 SPSC/75-22/P 42/Add.1 SPSC/76-43/P 42/Add.2/ Rev. SPSC/77-44/P 42/Add.3 SPSC/77-74/P 42/Add.4 SPSC/75-40/T 68 SPSC/75-21/M 48 SPSC/75-30/M 49 SPSC/74-45/T 14 SPSC/74-95/T 14/Add.1

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P 43		Brussels-MIT-Padova-Strasbourg	A. Fridman	$\bar{p}p$ interactions at 50, 100, 150 and 200 GeV/c	RCBC with secondary particle identification	EHNI	SPSC/75-16/P 43 SPSC/74-127/I 67
P 44		CERN-MIT-Nijmegen	E.W. Kittel	Study of K^+p^- interactions at 250 - 300 GeV/c	RCBC with downstream spectrometer and particle identification	EHNI	SPSC/75-18/P 44

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P 45		Florence-Cenova-Padova- LPNHE Paris-Paris VII- Rome-Trieste	D. Zanello	External γ -ray detector for BEBC with TST	γ - detector	WA	SPSC/75-24/P 45 SPSC/75-60/P 45/Add.1 SPSC/I 73-35
P 46		Bergen-Ecole Poly- technique (Palaiseau)	M. Haguenaer	Study of ν induced rare events and of neutral current interactions	GGM; NB beam with 140 GeV parents	WANF See also P 31. P46/Ad.5/P53/Ad.1 approved by RB on 10.3.77: WA36.	SPSC/75-27/P 46 SPSC/75-72/P 46/Add.1 SPSC/75-74/P 46/Add.2 31/Add.1 SPSC/76-9/P 46/Add.3 31/Add.2 SPSC/76-45/P 46/Add.4 52/Add.1 SPSC/76-103/P 46/Add.5 53/Add.1

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P 47		Helsinki-Stockholm	G. Ekspong	Study of \bar{p} , p interactions at 70 GeV/c	BEBC	WA See P 63 and P 68/Add.1	SPSC/75-49/P 47 SPSC/I 73-57
P 48		Bonn-Imperial College London-MPI Munich- Serpukhov	R. Hartmann	Study of $\bar{\nu}$ and ν interactions at highest available SPS energies	BEBC (Ne + H ₂) with D ₂ -TST; WB beam	WANF	SPSC/75-50/P 48 SPSC/75-78/P 48/Add.1

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P 49	WA 18	Amsterdam-CERN- Hamburg-Moscow (ITEP)- Rome	K. Winter	High energy ν and $\bar{\nu}$ interactions	Target calorimeter surrounded by magnetized iron	WANF; Study of semi-leptonic n.c. processes and of μ^- polarization approved by RB on 8.7.1976	SPSC/75-59/P 49 SPSC/76-51/P 49/Add.1 SPSC/77-45/P 49/Add.2 SPSC/74-1/I 58 SPSC/76-114/M 70
P 50		Turin	C. Franzinetti	γ - ray detector in BEBC for ν experiments	BEBC + metal plates or Neon bag	WANF	SPSC/75-61/P 50

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P 51	WA 20	Aachen-Bonn-CERN-I.C. London-Oxford-Saclay	G. Myatt	Beam dump test in BEBC Ne + H ₂ experiments	BEBC (Ne + H ₂)	WANF Approved by RB on 26.8.1976	SPSC/75-65/P 51 SPSC/77-105/M 98
P 52	WA 23	CERN-Milan-Orsay	C. Matteuzzi	Study of neutral current interactions with ν and $\bar{\nu}$ dichromatic beams	GGM; NB beam with 60 GeV parents	WANF; ν - part approved by RB on 26.8.1976	SPSC/75-69/P 52 SPSC/76-45/P 52/Add.1 SPSC/76-45/P 46/Add.4 SPSC/I 73-53

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P 53	WA 16	Annecy (IAPP)-CERN- Ecole Poly.(Palaiseau) Strasbourg	B. Aubert	Exploratory experiment at very high ν energy	GGM; NB beam	WANF Approved by RB on 8.7.1976	SPSC/75-71/P 53 SPSC/I 73-30 SPSC/I 73-53
P53Ad.1 + P46Ad.5	WA 36	Bergen-CERN-Ecole Polytechnique (Palaiseau)-Orsay	F. Jacquet	Extension of the narrow band beam experiment with Gargamelle to $\bar{\nu}$ running at high energy with the use of a trigger	GGM; NB beam	WANF Approved by RB on 10.3.1977	SPSC/76-103/P 53/Add.1 SPSC/77-22/M 75
P 54	Turin		C. Franzinetti	ν interactions in freon with narrow band beams from π 's and K's of 60, 140 and 275 GeV/c	GGM; NB beam	WANF	SPSC/75-77/P 54

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 55		Turin	C. Franzinetti	Experiment in dichromatic ν^- beam	GCM; NB beam with 140 GeV parents	WANF	SPSC/75-80/P 55
P 56		Serpukhov	P.V. Chliapnikov V.A. Yarba	Study of K^+p and K^-p interactions at 70 GeV/c (2 x 300 kpx)	BEBC + EPI	WA; Merged with P 14 + P 17 + P 32. See P 62	SPSC/75-84/P 56 SPSC/75-53/I 71

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 57	WA 28	Aachen-Berlin-CERN-Cracow-I.C. London-Vienna-Warsaw	K.W.J. Barnham	$\bar{K} p$ interactions at highest available momentum (~ 110 GeV/c) (300 kpx)	BEBC (+ EPI)	WA Approved by RB on 26.8.1976	SPSC/75-86/P 57 SPSC/76-26/P 57/Add.1
P 58	WA 11	imp. Coll. London-Indiana Univ.-Saclay	P. Borgeaud	Search of multiparticle decays of high mass states produced with the ψ (3.1 GeV)	Vertex spectrometer (Goliath); two pairs of fwd. spectrometer arms. Scintillator hodoscope; muon detector	WA Approved by RB on 19.2.1976 on common beam line with WA 6 (H3)	SPSC/76-3/P 58 SPSC/76-65/P 75 SPSC/76-82/M 60 SPSC/76-86/M 63

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 59		Mons	F. Grard	Study of strange meson production and of reactions with high p_T in pp and π^-p interactions at 100 GeV/c	RCBC (Hybrid system)	EHN1	SPSC/76-8/P 59 SPSC/77-5/P 59/Add.1
P 60		Cambridge-I.C. London	T.C. Bacon	Study of high energy $K_L^0 p$ interactions (100 kpx + 100 kpx)	BEBC	WA	SPSC/76-11/P 60

No.	Expt. Code	Labs.	Spokesman	Experiment	Apparatus	Ermarks	References
P 61	WA 12	Birmingham-CERN-Ecole Polytechnique (Palaiseau)-MPI Munich-Neuchâtel	J. Dowell	Beam dump experiment in Omega	Omega	WA First phase approved by RB on 24.6.1976	SPSC/76-14/P 61 SPSC/76-85/M 62 SPSC/77-13/M 72
P 62	WA 27	Brussels-CERN-Genova-Mons-Nijmegen-Serpukhov-Tel-Aviv	R.T. Van de Walle	Study of 70 GeV/c $K^+ p$ interactions	BEBC + EPI	WA Approved by RB on 26.8.1976	SPSC/76-15/P 62 SPSC/77-27/M 76

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 63		Brussels-Helsinki-Liverpool-Mons-Stockholm	N. Yamdagni	Study of $\bar{p}p$ interactions at 70 GeV/c	BEBC	WA See P 68/Add.1	SPSC/76-16/P 63
P 64	WA 30	Bologna-Glasgow-RHEL-Saclay-Torino	G. Kalmus	Investigation of direct electron production in hadron interactions	BEBC + TST (+EMI)	WA Approved by RB on 21.10.1976	SPSC/76-19/P 64 SPSC/76-59/P 64/Add.1 SPSC/76-7/I 79 SPSC/77-89/M 89

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 65	WA 31	Brussels-Helsinki-Liverpool-Mons-Stockholm	J. Lemonne	Study of prompt lepton production in $\bar{p}p$ interactions at 70 GeV/c	BEBC + TST	WA Approved by RB on 21.10.1976	SPSC/76-20/P 65
P 66	WA 37	Aachen-CERN-Glasgow-Liverpool	I.S. Hughes	Search for new bosons and charmed states in pp interactions in 4.1 GeV c.m. energy region	Omega	WA P66/Add.2 approved by RB on 14.4.77 Withdrawn by RB on 22.9.1977, re-placed by WA40/P89	SPSC/76-24/P 66 SPSC/76-54/P 66/Add.1 SPSC/76-60/P 66 Rev. SPSC/77-23/P 66/Add.2 SPSC/76-46/T 16

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 67	WA 13	CERN-Collège de France Neuchâtel	P. Sonderegger	Hadronic two-body reactions at large p_T	Omega	WA \bar{p} -run approved by RB on 8.7.1976	SPSC/76-30/P 67
P 68		Cambridge-Michigan State	J.C. Rushbrooke	Production of neutral particles in $\bar{p}p$ interactions at 150 GeV/c	BEBC	WA	SPSC/76-34/P 68 SPSC/77-97/P 68/Add.1

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 69	WA 29	Liverpool	J.R. Fry	Study of \bar{p} annihilation mechanism in 4π and 6π final states at 15 GeV/c	Omega	WA Approved by RB on 26.8.1976	SPSC/76-35/P 69 SPSC/76-27/I 81
P 70	WA 17	Ankara-Brussels-CERN- Dublin-U.C. London- Pisa-Rome-Turin	M. Conversi	Investigation of di-muon events and search of "new particles" in ν interactions	BEBC + Emulsion + EMI	WANF Approved by RB on 8.7.1976	SPSC/76-41/P 70 SPSC/77-51/M 80

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 71	WA 32	I.C. London	T.C. Bacon	Direct photon production in pp-collisions	BEBC (H ₂ +Ne)	WA Approved by RB on 21.10.1976	SPSC/76-50/P 71 SPSC/76-48/I 84
P 72	WA 22	I.C. London-Saclay	B. Tallini	Comparison of n.c. and c.c. reactions induced by ν_{π} and ν_K	BEBC (H ₂ +Ne) + EMI	WANF (NB) Approved by RB on 26.8.1976	SPSC/76-52/P 72 SPSC/76-47/I 83 SPSC/76-84/M 61 SPSC/77-92/M 91

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 73	WA 33	Bologna-Saclay	A. Muller	Systematic search of long-lived heavy particles in the SI-beam	✓ Cerenkov-counters and MWPC in SI beam	WA Approved by RB on 25.11.1976	SPSC/76-55/P 73 SPSC/77-75/M 86
P 74		Pavia-Tel-Aviv-Torino	G. Rinaudo	Direct electron production from pp collisions at 70 GeV	BEBC + TST	WA	SPSC/76-61/P 74

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 75		I.C. London-Southampton	A. Duane	Addition of electromagnetic shower detector behind WA 11 apparatus	Forward shower detector and low momentum particle counter	WA See P 58 Approved by RB on 21.10.1976	SPSC/76-65/P 75 SPSC/76-3/P 58 SPSC/76-82/M 60
P 76	NA 6	Freiburg-ITEP Moscow-Karlsruhe	K. Runge	Neutron elastic scattering at small angles	H ₂ gas target + MWPC, n-vertex detector, calorimeter	BHNI Approved by RB on 20.1.1977	SPSC/76-74/P 76 SPSC/75-47/I 69 SPSC/76-100/M 67

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 77		Padova	M. Baldo-Ceolin	Search for neutrino oscillations	BEBC (Ne)	WA Not recommended by SPSC on 27.1.1977	SPSC/76-92/P 77
P 78	WA 34	Bologna-CERN-Florence- Genova-Paris VI- Santander-Valencia and see Coll WA 4	G. Diambri- Palazzi	Study of charmed particles photo produced in emulsion plates tagged by the Ω triggers	Emulsion plates + Omega	WA Approved by RB on 20.1.1977	SPSC/76-96/P 78 SPSC/76-101/P 78/Add.1 SPSC/76-113/P 78/Add.2 SPSC/77-108/M 100

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 79	WA 35	Darmstadt-Heidelberg-Virginia-Warsaw	B. Povh	Measurement of multiplicity correlations of p and π in hadron-nucleus collisions below 100 GeV	Scintillator/ Čerenkov counter set-up + fwd. hodoscope	WA Approved by RB on 10.3.1977	SPSC/76-102/P 79 SPSC/77-9/P 79/Add.1
P 80	Bari-Rutgers-Strasbourg	A. Fridman	Negatively charged hyperons induced reactions and \bar{p} annihilations	Streamer chamber + spot focusing Čerenkov counter	Ehni Not recommended by SPSC on 2.3.1977	SPSC/77-1/P 80 SPSC/77-7/P 80/Add.1	

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 81	WA 44	Bologna-CERN-INFN	A. Zichichi	Search for quarks in neutrino interactions	Plastic scintillation counter, wire chambers, streamer chamber	WA Approved by RB on 8.12.1977	SPSC/77-10/P 81 SPSC/77-73/P 81/Add.1
P 82	WA 42	Birmingham-Bristol-Geneva-Heidelberg-Lausanne-Queen Mary Coll.-Rutherford	P. Extermann	Strong interactions of charged hyperons	Magnetic spectrometer and prop. chambers + TOF for recoil protons	WA Approved by RB on 17.11.1977	SPSC/77-24/P 82 SPSC/77-90/M 90

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 83	NA 7	Southampton-Westfield College Frascati-Milan-Pisa Rome (FRAMM)	S.G.F. Frank	Measurement of electro-magnetic form factors of π^+ and K mesons	FRAMM spectrometer preceded by MWPC	EHN1 Approved by RB on 22.9.1977	SPSC/77-30/P 83 SPSC/77-63/P 83/Add.1
P 84	WA 39	Birmingham-CERN-Neuchâtel-Ecole Polytechnique-Rutherford	J.D. Dowell	Study of di-muon production by π^+ , K^+ , \bar{p} and \bar{p} at 40 GeV/c	Omega	WA Approved by RB on 18.8.1977	SPSC/77-32/P 84

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 85	WA 38	Bologna-CERN-USSR	V.P.Martemianov	Magnetic monopole search	Beam dump targets	Approved by RB on 16.6.1977	SPSC/77-37/P 85
P 86	ETH Zurich	ETH Zurich	V.L. Telegdi	Inclusive production of massive muon pairs with intense pion beams	Magn. iron toroids, MWPCs, scintill. count.	EHN2 Not recommended by SPSC on 29.6.1977	SPSC/77-49/P 86 SPSC/77-20/I 88

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 87		Annecy-CERN-Kyoto Sangyo-Marseille- Serpukhov-Trieste- Vienna	G. Fidecaro	Study of spin effects at SPS energies using a polarized proton beam	Polarized beam + polarized target, magn. spectro-meter	EHNI Not recommended by SPS on 2.11.1977	SPSC/77-61/P 87 SPSC/77-101/M 94
P 88		CERN-Lausanne-Lund-Rockefeller	L. Dick	Study of spin effects in pp reactions at SPS using a polarized atomic hydrogen jet target	Gas jet target, scintill. + shower detectors	SPS tunnel Not recommended by SPS on 25.1.1978	SPSC/77-71/P 88 SPSC/77-118/P 88/Add.1 SPSC/77-121/P 88/Add.2 SPSC/78-2/P 88/Add.3

No.	Expt. Code	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
P 89	WA 40	Aachen-Bari-Bonn-CERN-Glasgow-Liverpool-Milano	B.R. French	Search for narrow boson resonances coupled to the nucleon-antinucleon system	Omega	WA Approved by RB on 22.9.1977 (see WA 37/P 66)	SPSC/77-76/P 89
P 90	NA 8	Clermond Ferrand-Leningrad-Lyon-Uppsala	P. Grafström	Hadron Elastic scattering at small angles	Ionisation chamber recoil spectro- meter; forw. magn. spectrometer	EHN1 Approved by RB on 8.12.1977 (see WA 9/P 26)	SPSC/77-87/P 90

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
M 97	WA 41	CERN-Dortmund-Heidelberg-Saclay	J. Steinberger	Beam dump run to check origin of trimuon and exceptional dimuon events	(see WA 1/P 1)	WANF Approved by RB on 17.11.1977	SPSC/77-104/M 97 (Lab.II/EA/75-16)
M 99 M 104	WA 43	Aachen-Bari-Bergen - Brussels-CERN-Ecole Polyt. Palaiseau - Milano-Orsay-Stras- bourg-Univ. Coll.London	J. Morfin	Beam dump run in Gargamelle	Gargamelle	WANF Approved by RB on 8.12.1977 (see WA 14/P 31 + P 46, WA 15/ P 34 + P 39).	SPSC/77-107/M 99 SPSC/77-120/M 104

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
M 100	WA 45	Bologna-CERN-Florence- Genova-Paris VI- Santander-Valencia	G. Diambri- Palazzi	Data analysis results of the test emulsion exposure and proposal for the full exposure concerning experiment WA 34 on charmed particle photoproduction in emulsion plates	Emulsion plates + Omega	WA Approved by RB on 8.12.1977 (see WA 4/P 10 & WA 34/P 78)	SPSC/77-108/M 100
P 91	NA 10	Ecole Polytechn. Palaiseau-ETH Zurich	V.L. Telegdi	High resolution study of the inclusive production of massive muon pairs by intense pion beams	Pulsed toroidal magn., MWPCs, scintill. hodosc.	EHN3 Approved by RB on 16.03.1978	SPSC/77-110/P 91

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 92		Aachen-Annecy (LAPP)- Birmingham-CERN- Collège de France- Queen Mary Coll. London- UCL Riverside- Rutherford-Saclay	C. Rubbia	A 4π solid angle detector for the SPS used as a $p\bar{p}$ collider at a centre of mass energy of 540 GeV	Multiparticle detector surrounded by e.m. calorimeter and hadron calorimeter	SPS tunnel	SPSC/78-6/P 92
P 93		CERN-Orsay-Saclay	P. Darriulat	Study of $\bar{p}p$ interactions at 540 GeV cm energy	Detector with e.m. SPS and hadron calorimeter fwd. + backwd spectrometers		SPSC/78-8/R 93

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 94	WA 46	Bristol-Geneva-Heidelberg-Orsay-Rutherford-Strasbourg (WA 2 Coll.)	J.-M. Gaillard	Study of Ω^- decays and the $\Sigma^- \rightarrow ne^{-}\bar{\nu}$ decay mode in the hyperon beam	Hyperon beam; MWPC (backward) + forward spectrometer	Approved by RB on 16 March 1978.	SPSC/78-12/P 94
P 95	Amsterdam-CERN-Cracow-Munich (MPI)-Rutherford	R. Klanner	Measurement of charmed particle production in hadronic reactions	Two stage spectrometer + photon calorimeter	WA or NA (EHN1) Recommended by SPSC on 22.3.1978	SPSC/78-14/P 95	

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 96		Annecy (LAPP)-CERN	P. Musset	Search for magnetic monopoles	Solid state track detectors in magn. field	SPS tunnel	SPSC/78-15/P 96
P 97		Bologna (Univ.+INFN)- CERN	A. Zichichi	Search for quarks at the $\bar{p}p$ collider	Scintillation hodoscopes, wire chambers, em. & hadronic calorimeters	SPS tunnel	SPSC/78-16/P 97

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 98		Aachen-Bonn-CERN- London-Oxford-Saclay	B. Tallini	To continue the study of neutrino interactions with dichromatic beams at the SPS, using BEBC filled with neon	BEBC (Ne)	WA	SPSC/78-28/P 98
P 99	CERN		J. Baarli	Biological effects of 150 GeV/c protons	Beam monitor, irradiation assembly	WA	SPSC/78-30/P 99

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 100		CERN-Dortmund-Heidelberg-Saclay	J. Steinberger	Improvement of the WA 1 apparatus	Magnetic muon spectrometer + hadronic shower detector	WA	SPSC/78-32/P 100
P 101		Brussels-Cambridge-College de France-I.C. London-Liverpool-Mons-PLNHE Paris-Strasbourg-Vienna	J.G. Rushbrooke	A high statistics study of $\bar{p}p$ annihilation physics at the EHS	EHS + fwd. Cerenkov intermediate fwd. neutral hadron calorimeters	NA (EHN1)	SPSC/78-38/P 101

No.	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
I 1	Marburg	R. Brandt	Nuclear chemistry (absolute monitor σ ; reactions in Cu, Au, Bi, U; "strange" decays as spontaneous fission)	(no detail)	no internal irradiation facility available. Would be "Beam dump" expt. NA (WA?)	SPSC/I 73-1
I 2	Orsay	F. Yiou	Nuclear chemistry for astrophysics	Internal irradiation facility	is not available	SPSC/I 73-2
I 3	CERN	B.G. Pope	$p + \text{nucleus} \rightarrow \mu^+ + \mu^- + \text{anything at } 400 \text{ GeV to } \sigma \sim 10^{-39} \text{ cm with } 10^{12} \text{ p/p. } \Delta M/M = \pm 5\% \text{ for } 5 \text{ GeV} < M < 25 \text{ GeV}$	Beam dump in 1 m target 10 m steel wall MWPC-planes with $\epsilon = \pm 0.5 \text{ mm}$	NA, behind zone 2	SPSC/I 73-3 SPSC/74-96/P 27
I 4	HEPL, Stanford	R. Hofstadter	Backward inelastic inclusive proc. $p + p \rightarrow p + p$ $\rightarrow p + x$ $\rightarrow \pi^+ + x$ $\rightarrow K^+ + x$ etc., etc. Coincidence with High Res. Spectr. (1 arm) + TANC detector or particle or γ -detector 2nd arm: $p + p \rightarrow p + p + x$ (+ elast.)	168" 2.5 GeV/c high resolution large acceptance spectrometer 180° bend $\Delta p/p = 10^{-4}$	EHN1 Not recommended by SPSC	SPSC/I 73-4
I 5	Bergen	O. Skjeggstad	ν -physics	Gargamelle	WA	SPSC/I 73-5 SPSC/74-122/P 34
I 6	Bari	S. Natali	ν -physics	Gargamelle	WA	SPSC/I 73-6 SPSC/74-117/P 31
I 7	-	P. Schlein	High P_t processes	Total absorption calorimeter		SPSC/I 73-7

No.	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
I 8	Daresbury, Birmingham Glasgow, Lancaster, Manchester, Sheffield, Orsay, Ecole Pol., Bonn	P.J. Duke	γ + e-physics 20 - 100 GeV	Omega	WA (NA: combined e^- -hadron beam planned).	SPSC/I 73-8 SPSC/74-29/P 10
I 9	CERN, Trieste Vienna	G. Fidecaro	$d\sigma/dt$ and polariz. parameter P for $\bar{p}p \rightarrow \bar{p}p : \bar{p}n \rightarrow np$ $\rightarrow pn$ between 25 \rightarrow 150 GeV/c and $t \lesssim 3$ (GeV/c)	Little detail. WMPC or drift ch. $> 10^8$ p/p	WA (H 1) for low E MINI (H4, H8) for high E.	SPSC/I 73-9 SPSC/74-17/P 8
I 10	Athens, Democritos, Liverpool, Nijmegen	R. Van de Walle	$K^+ p$ 70 GeV/c	BEBC (H ₂) (+EHI?)	WA	SPSC/I 73-10 SPSC/74-73/P 17
I 11	Geneva, Heidelberg, Lausanne, Orsay, RHEL, Strasbourg	G. Sauvage	Charged hyperon interactions; leptonic decays	Hyperon beam, MWPC (backw.) + forw. spectro- meter	WA	SPSC/I 73-11 SPSC/P 73-2
I 12	Aachen, CERN, Oxford	D. Cundy	ν -physics	BEBC (Ne) + EMI	WA	SPSC/I 73-12 SPSC/74-88/P 23
I 13	Brussels	J. Sacton	ν -physics	Bubble Chamber	WA	SPSC/I 73-13 SPSC/74-116/P 30 SPSC/74-126/P 36
I 14	LPNHE	J. Duboc	$K^+ p$, 70 GeV/c	BEBC (H ₂) hybrid (charged particle) identifier, TST, ext. γ -detector)	WA	SPSC/I 73-14 SPSC/74-118/P 32

No.	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
I 15	Daresbury, Lancaster Liverpool, Oxford, Sheffield, R.M.C. Schriivenham, Coll. de France, IPN Orsay Bonn, (DESY), Wuppertal, CERN	E. Gabathuler	μ -physics up to 250 GeV	Forw. spectrometer 3 stages. Trajec. mea- sured by W_1 -Wg: $t_1 = + 0.15$ mm. Large γ detector: 2 x 2m x 1m gap C-magnet; beam through yoke. Wire ch. inside + out- side or streamer	EHN2, magn. length: 2, 4 + 8 Tm. 200 evts/10 ⁸ p 2 litre polarized target planned.	SPSC/I 73-15 SPSC/I 73-15 Rev. SPSC/74-75/P 16
I 16	University College	D.J. Miller	p, π^- -proton up to 200 GeV/c	BEBC ($H_2 + Ne$) + TST (H_2) + forward γ -detector	WA	SPSC/I 73-16
I 17	University College	F.W. Bullock	ν -physics	Gargamelle	WA	SPSC/I 73-17 SPSC/74-122/P 34
I 18	Glasgow, Oxford, RHEL, Saclay	G. Kalmus	$K^+ p, 45 + 65$ GeV/c	BEBC (H_2) EHI	WA	SPSC/I 73-18 SPSC/75-2/P 38
I 19	Mons	F. Grard	K^+ 30-75 GeV/c, \bar{p} 25-100 GeV/c	BEBC (H_2) EHI	WA	SPSC/I 73-19 SPSC/74-47/P 14 SPSC/74-87/P 22
I 20	Strasbourg	M. Paty	ν -physics	BEBC ($H_2 + Ne$) or GGM + EMI	WA	SPSC/I 73-20 SPSC/74-122/P 34 SPSC/75-71/P 53
I 21	Birmingham, CERN, Genova, Saclay	E. Quercigh	K^+, \bar{p} at 40-60 GeV/c	BEBC (H_2) EHI	WA	SPSC/I 73-21 SPSC/74-47/P 14

No.	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
I 22	Aachen, Berlin, Bonn, CERN, Cracow, Heidelberg, London, Vienna, Warsaw	D.R.O. Morrison	K^- , 75-110 GeV/c	BEBEC (H ₂) later with Čerenkov- beam-tagging; TST	WA	SPSC/I 73-22
I 23	CERN, Hamburg, Karlsruhe, Oxford, RHEL, Westfield College	K. Winter	ν -physics	Hadron ionisation calorimeter	WA	SPSC/I 73-23 SPSC/P 73-3 SPSC/75-59/P 49
I 24	Orsay	B. Daugas	π^+ , highest momentum	BEBEC (H ₂)	WA	SPSC/I 73-24 SPSC/74-80/P 20
I 25	Orsay	B. Daugas	π^+ , π^- , high momentum	BEBEC (H ₂ + Ne) TST with deuterium	WA	SPSC/I 73-25 SPSC/74-80/P 20
I 26	Ecole Polytech- nique	P. Petiau	ν -physics	Gargamelle, BEBEC (Ne)	WA	SPSC/I 73-26 SPSC/74-119/P 33 SPSC/75-71/P 53
I 27	Bari, Birmingham, CERN, Genova Oslo, RHEL, Stockholm	C. Damerell	Hadron physics \rightarrow 150 GeV/c	Focusing spectro- meter	WA	SPSC/I 73-27
I 28	Aachen, CERN, Oxford	G. Myatt	ν -physics	BEBEC (H ₂) + EMI	WA	SPSC/I 73-28 SPSC/74-91/P 25

No.	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
I 29	Aachen, Bari, Bergen, Brussels, U.C. London, CERN, Milano, Padova, Ecole Polyt., Orsay, Strasbourg, Torino	A. Rousset	ν -physics	Bubble chambers	WA; review of ν -programme of 12 Laboratories.	SPSC/I 73-29
I 30	CERN	A. Rousset	ν -physics	BEBC, GGM	WA	SPSC/I 73-30 SPSC/75-71/P 53
I 31	Collège de France	C. Ghesquière	π^+ , K^+ , \bar{p} ; 30-50 GeV/c	BEBC (H ₂) + EHI + wire ch. in beam + γ -detection (+TST)	WA	SPSC/I 73-31
I 32	Athens (Democritus + Univ.), Liverpool	H. Muirhead	\bar{p} ; 50 + 100 GeV/c	BEBC (H ₂) (+EHI)	WA	SPSC/I 73-32 SPSC/74-60/P 13
I 33	IPN Orsay	T. Willits	$\pi^- p \rightarrow \pi^0 n$; 10, 25 and 50 GeV/c	Frozen spin polar. target + n-detector + γ -detectors	WA	SPSC/I 73-33 SPSC/74-44/P 12 SPSC/75-9/P 40

No.	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
I 34	Oxford	A.M. Segar	Search for heavy leptons	W-target spectrometer with magnetized Fe + drift ch	NA; beam dump expt.	SPSC/I 73-34 SPSC/74-96/P 27
I 35	Naples, Padua, Rome-Frascati, Trieste	D. Zanello	External γ -detector for BEBC	MWPC + lead glass counters	WA	SPSC/I 73-35 SPSC/75-24/P 45
I 36	Milan, Pisa, Rome	L. Foà	Comparative study of hadron fragmentation	Cylindrical chambers around target + forw. spectrometer	EHN!	SPSC/I 73-36 SPSC/74-15/P 6
I 37	Glasgow	I.S. Hughes	$K^+ p$ -processes at 35 and 65 GeV/c	Omega with MWPC (and downstream C-counter with wire ch.)	WA	SPSC/I 73-37
I 38	Bari, Bonn, CERN, Daresbury, Glasgow, Liverpool, Milan	B.R. French	Meson physics with Omega in RF separated beam	As in I 37	WA	SPSC/I 73-38
I 39	Saclay	Y. Ducros, L. van Rossum	Polarization measurements in πp and $K p$ inelastic reactions; elast. scatt. at large momentum transfer	Polarized target large angle detector system + forw. C-counters		SPSC/I 73-39 SPSC/74-71/P 15
I 40	Bonn	K. Böckmann R. Hartmann W. Meincke	ν - and $\bar{\nu}$ -interactions	BEBC (H_2)	WA	SPSC/I 73-40 SPSC/74-91/P 25 SPSC/75-50/P 48
I 41	Prague	J. Sedlak	$\bar{p} p$ interactions at 70-100 GeV/c	BEBC	WA	SPSC/I 73-41

No.	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
I 42	Collège de France, Ecole Polytechnique Orsay, MPI + Univ. Munich, Saclay	J. Lefrançois	Hadron, electron and photon physics	Multi-particle spectrometer		SPSC/I 73-42
I 43	Geneva	M. Martin C. Nef	Energy dependence of two-body reaction $K^+ p \rightarrow K^{*+} p$ \downarrow $K^0 \pi^+$	C-counter + hodoscope in beam; proton + decay analyser with PWC	WA	SPSC/I 73-43 SPSC/74-31/P 11
I 44	Milan	E. Fiorini	ν -physics.	Gargamelle	WA	SPSC/I 73-44 SPSC/74-117/P 31 SPSC/75-69/P 52
I 45	Lausanne, Neuchâtel	E. Jeannet	Incident part. + $p \rightarrow \Lambda^0 + \dots, K^0 + \dots, \Sigma^0 + \dots, \Xi^0 + \dots$; fragmentation of proton-target; coherent reactions on He	Streamer chamber "Dardanelle"		SPSC/I 73-45
I 46	Geneva	O. Guisan	Form factor of π 's and K 's	\check{C} -counter; forward analyzing system with wire ch. (+ shower detector)		SPSC/I 73-46
I 47	CERN, MPI Munich	P. Weilhammer	Few-body reactions	CERN-Munich spectrometer	WA	SPSC/I 73-47 SPSC/74-14/P 7
I 48	Bristol, Southampton	S.G.F. Frank	Form factor of π 's	Forward magnetic spectrometer from P 6	WA	SPSC/I 73-48 SPSC/74-85/I 48/Add.1
I 49	Oxford	N.E. Booth	ν -e interactions	100 modules each with 3 rad. lengths Fe + MWPC layer		SPSC/I 73-49
I 50	Bari, Caen, CERN, Liverpool	B.R. French	Study of high p_t -events and resonance physics	Multiparticle spectrometer with MWPC + 2 Morpurgo magnets	WA	SPSC/I 73-50 SPSC/74-3/P 4

No.	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
I 51	Ecole Polytechnique.	V. Brisson	ν -physics.	BEBC (H_2 ; D_2)	WA	SPSC/I 73-51 SPSC/74-119/P 33
I 52	Graz, Illinois Inst. Techn., Purdue.	T. Erber	High-energy magnetic Bremsstrahlung.	Pulsed megagauss fields.	Not recommended by SPSC	SPSC/I 73-52
I 53	Orsay.	A. Lagarrigue	ν -physics.	GGM, BEBC.	WA	SPSC/I 73-53 SPSC/75-69/P 52 SPSC/75-71/P 53
I 54	CERN, ETH.	W. Beusch	Reggeon-nucleon scattering.	Shower detector (with Omega).	WA	SPSC/I 73-54 SPSC/74-51/M 29
I 55	Pavia.	S. Ratti	Hadron fragmentation (30-70 GeV/c).	Magnetic spectro-meter in Ω -beam.	WA; withdrawn 25.6.1974.	SPSC/I 73-55
I 56	Amsterdam, Bologna, Padua, Pisa, Saclay, Torino.	A. Tenner	ν -physics.	BEBC (D_2)	WA	SPSC/I 73-56 SPSC/74-9/I 56/Add.1 SPSC/74-72/P 16
I 57	Scand. BC-Collab. (Helsinki, Stockholm).	S. Nilsson	$\bar{p}p$ -reactions 30-70 GeV/c.	BEBC	WA	SPSC/I 73-57 SPSC/75-49/P 47
I 58	Frascati, Naples.	G. Barbiellini	ν -lepton scattering.	Scintill. counter + spark chambers.	WA	SPSC/74-1/I 58 SPSC/75-59/P 49
I 59	Aachen.	J. von Krogh/ K. Schultze	ν -physics.	GGM	WA	SPSC/74-2/I 59 SPSC/75-5/P 39

No.	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
I 60	DESY	H. Meyer	ν -e scattering.	Streamer chamber with CH_2 plates and scintillation counters.	WA	SPSC/74-5/I 60
I 61	Birmingham.	J.D. Dowell	Rare meson systems from $\text{K}^+ \text{p}$ collisions at 16 and 32 GeV/c.	Omega (with lever arm for 32 GeV/c).	WA	SPSC/74-50/I 61 SPSC/74-84/P 21
I 62	Leningrad, Uppsala.	T. Ekelöf	Hadronic interactions at very small momentum transfers.	Ion chamber spectrometer (recoil) + magnetic spectrometer.	WA	SPSC/74-56/I 62 SPSC/74-94/P 26
I 63	Imperial College.	P. Astbury, D. Websdale	Measurement of helicity amplitudes in hypercharge exchange between 5 and 12 GeV/c.	Magnet spark chamber in shortened S 1 beam.	WA	SPSC/74-57/I 63
I 64	Univ. of Michigan.	A.D. Krisch	Elastic pp -scattering at high transverse momentum, 200 GeV.	Double arm spectrometer.	EHNI Not recommended by SPSC	SPSC/74-68/I 64
I 65	MPI Munich.	P. Seyboth	Multi-particle hadron physics.	Streamer chamber and vertex magnet.	EHNI	SPSC/74-86/I 65 SPSC/75-1/P 37
I 66	CERN, IPN Orsay, Oxford	L. Dick	Measurement of spin effect (P_0 and R) and differential cross-sections in hadron-hadron elastic scatterings	Polarized target; solenoid spectrometer; position sensitive scintillation counters f. forward detector	EHNI	SPSC/74-111/I 66 SPSC/74-44/P 12 SPSC/75-9/P 40
I 67	Brussels, MIT, Padova, Strasbourg	A. Fridman	Study of $\bar{\text{p}}\text{p}$ interactions at 50, 100, 150 and 200 GeV/c	Rapid cycling bubble chamber + EPI	EHNI	SPSC/74-127/I 67 SPSC/75-16/P 43

No.	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
I 68	Heidelberg	K. Tittel	Study of multihadron events in hybrid detector	Rapid cycling chamber	EHNI	SPSC/75-40/I 68 SPSC/75-15/P 42
I 69	Karlsruhe, Moscow	J. Engler Yu Galaktionov	Neutron small angle elastic scattering at high energies	Proton recoil detector + liq. Ar. neutron calorimeter	EHNI	SPSC/75-47/I 69 SPSC/76-74/P 76
I 70	Serpukhov	Yu D. Prokoshkin	Hadron scattering at large p_T	Multipurpose spectrometer for neutral and charged particles	EHNI	SPSC/75-52/I 70
I 71	Serpukhov	P.V. Chliapnikov	Study of K^+p and K^-p interactions at 70 GeV/c	BEBC	WA	SPSC/75-53/I 71 SPSC/75-84/P 56
I 72	Serpukhov	S.B. Nurushev	Measurement of polarization in hadron-hadron interactions	Polarized target; fwd. spectrometer with MWPC, threshold Cerenkov counter and hodoscope; recoil arm with MWPC and hodoscope	WA	SPSC/75-54/I 72
I 73	Moscow (ITEP)	V.S. Kaftanov	Study of ν , e-scattering	Spark chambers	WA	SPSC/75-55/I 73
I 74	Kurchatov Inst. Novosibirsk	I.I. Gurevich	Magnetic monopole search	Beam dump	WANF	SPSC/75-56/I 74
I 75	Yerevan	A.G. Ojanessian	Hadron identification by transition radiation detector in polarization measurements		WA	SPSC/75-57/I 75
I 76	Padua	M. Baldo-Ceolin	Study of ν -electron interactions	Spark chambers + γ shower counters	WANF	SPSC/75-79/I 76
I 77	Serpukhov	V.A. Yarba	Study of ν and $\bar{\nu}$ interactions (1 Mpx)	BEBC + TST (D ₂)	WANF	SPSC/75-83/I 77

No.	Labs	Spokesman	Experiment	Apparatus	Remarks	References
I 78	Rome	M. Conversi	Study of di-muon events and search of new short-lived particles produced by ν in emulsion stack coupled to BEBC	BEBC + emulsion stack	WANF	SPSC/76-2/I 78
I 79	Rutherford Lab.	G. Kalmus	Investigation of direct electron production in hadron interactions	BEBC + TST (+ EMI)	WA	SPSC/76-7/I 79 SPSC/76-19/P 64
I 80	CERN, Genova, Orsay, Oslo, U.C. London	A. Lundby	Production of massive muon pairs in hadronic interactions	Double arm spectrometer with μ -detectors	WA	SPSC/76-13/I 80 SPSC/74-28/P 9 SPSC/76-12/M 55
I 81	Liverpool, Oxford	J.R. Fry	\bar{p} annihilation mechanism in 4π and 6π final states at 16 GeV/c	Omega	WA	SPSC/76-27/I 81 SPSC/76-35/P 69
I 82	Cambridge	J.G. Rushbrooke	Study of 200 GeV/c K^+p and K^-p	BEBC	WA	SPSC/76-39/I 82
I 83	I.C. London, Saclay	B. Tallini	Comparison of neutral and charged current ν -interactions induced by ν_π and ν_K at the same energy	BEBC	WANF	SPSC/76-47/I 83 SPSC/76-52/P 72
I 84	I.C. London	T.C. Bacon	An investigation of direct photon production in pp collisions at 100 GeV/c	BEBC ($H_2 + Ne$)	WA	SPSC/76-48/I 84 SPSC/76-50/P 71
I 85	Aachen, Bonn, CERN, Oxford	D.R.O. Morrison	Study of ν and $\bar{\nu}$ interactions	BEBC	WANF (NB)	SPSC/76-64/I 85
I 86	FNAL, Pavia, Strasbourg	P. Schübelin	Particle production associated with rare hadron induced processes	4 fast vertex detector, fwd. spectrometer	FHNI	SPSC/76-81/I 86

No.	Labs	Spokesman	Experiment	Apparatus	Remarks	References
I 87	Anney (LAPP), CERN, Marseille, Padova, Serpukhov, Trieste, Vienna	G. Fidecaro	Study of spin effects using a polarized beam facility	Polarized target backw. detectors; fwd. spectrometer	EHN1	SPSC/76-95/I 87
I 88	ETH Zurich	P. Jenni	Inclusive production of massive muon pairs with intense pion beams		EHN3	SPSC/77-20/I 88 SPSC/77-49/P 86
I 89	Rutherford, Rome, Collège de France	C.M. Fisher	Study of charmed particle production in hadron induced reactions at high energies using a Rapid Cycling Hydrogen Bubble Chamber as a vertex detector	Rutherford Lab. RCVD	EHN1	SPSC/77-25/I 89
I 90	IHEP-IISN-LAPP	J.P. Stroot	Study of exclusive $\pi^- n$ interactions with neutral multi-meson final states	Cellular hodoscopic Cerenkov spectro- meter	EHN1	SPSC/77-43/I 90
I 91	Bonn, CERN, Ecole Polytechn., Glasgow, Lancaster, Manchester, Orsay, Paris VI, Rutherford, Sheffield	M.A.R. Kemp	To pursue a long term programme of electron and photon physics with a multiparticle spectrometer system at high intensity and high energy	Omega prime	WA	SPSC/77-65/I 91
I 92	Bari, Milano	L. Mandelli	Study of $K^+ K^-$ system produced by incident π^+ and K^- at 40 GeV/c with the Omega spectrometer equipped by a MWPC's detector	Omega prime	WA	SPSC/77-66/I 92
I 93	Orsay, Ecole Polytechn., Palaiseau	J. Six	Study of baryonium states produced by baryon exchange reactions in the Omega prime spectrometer	Omega prime	WA	SPSC/77-67/I 93

No.	Labs	Spokesman	Experiment	Apparatus	Remarks	References
I 94	CERN, Glasgow, Liverpool	B.R. French	Study of π^-p reactions involving a nucleon-antinucleon pair in the final state at 40 (80) GeV/c using the Omega (Omega prime) spectrometer	Omega prime	WA	SPSC/77-68/I 94
I 95	CERN, Collège de France, Neuchâtel	P. Sonderegger	Two-body reactions at 90° c.m. using Omega prime	Omega prime	WA	SPSC/77-69/I 95
I 96	Brussels, CERN, Dublin, U.C. London, Rome, Strasbourg	E.H.S. Burhop	Study of short-lived particles produced in neutrino interactions in emulsion stack located inside Gargamelle	Emulsion in Gargamelle	WANF	SPSC/77-88/I 96 SPSC/77-111/I 97
I 97	Anney, CERN, Copenhagen, Oslo, Univ. Coll. London, (WA 7 coll.)	J.P. Guillaud	Large-angle elastic scattering at 100 - 300 GeV in EHN3	WA 7 - equipm. + MWPCs + scintill. counters	EHN3	SPSC/77-111/I 97
I 98	Amsterdam, CERN, Ec. Polytechn. Palaiseau, Imp. Coll. London, MPI Munich, Orsay, Saclay	P. Weilhammer	A programme of photoproduction in a very high energy and high intensity photon beam	Magn. spect., Čerenkov hodosc., e.m. shower detect., muon-identifier	EHN3	SPSC/77-116/I 98
I 99	Vienna	M. Markytan	Use of the EHS to study pion, kaon and nucleon diffraction reactions at 200 - 400 GeV/c	EHS + part. identification + IGD + PGD	EHN1	SPSC/77-124/I 99
I 100	CERN-UCL Riverside	G. Matthiae	The measurement of elastic scattering and total cross section at the $\bar{p}p$ collider	Four drift chamber telescopes	SPS tunnel	SPSC/78-11/I 100
I 101	Bologna (Univ.+ INFN) - CERN	A. Zichichi	A powerful particle identification system for the (p- \bar{p}) collider	Magn. analysis, dE/dx, TOF Čerenkov counters, calorimeters, shower detectors	SPS tunnel	SPSC/78-17/I 101

No.	Labs.	Spokesman/ Contactman	Experiment	Apparatus	Remarks	References
I 102	Bonn, CERN, Glasgow, Lancaster, Manchester, Rutherford, Sheffield	M.A.R. Kemp	Study of the reactions $\gamma p \rightarrow p\pi^+\pi^-\pi^0$, $p\pi^+\pi^-\pi^0$, $pK^+K^-\pi^0$, $pK^+K^-\pi^+\pi^0$ in the energy range $E\gamma = 20-50$ GeV	Omega	WA	SPSC/78-24/I 102 SPSC/78-42/P 102
I 103	Bombay	S.N. Ganguli	$\bar{p}p$ annihilation studies with EHS	EHS + part. ident. + photon detector	NA (EHN1)	SPSC/78-31/I 103
I 104	CERN, Liverpool	R.A. Donald	Study of $\bar{p}p$ interactions involving baryon exchange using the Omega spectrometer	Omega	WA	SPSC/78-35/I 104
I 105	CERN, Frascati, Genova, Heidelberg, Madrid, Pavia, Rome, Rutgers- Stevens, Serpukhov, Tennessee, Vienna	J. Stiewe	Investigation of diffraction dissociation phenomena at the CERN SPS using the European Hybrid Spectrometer facility	EHS + part. ident. + IGD and FGD	NA (EHN1)	SPSC/78-35/I 105
I 106	Bombay	S.N. Ganguli	Study of inclusive particle production in proton-proton interactions with EHS	EHS + drift ch. + photon detectors	NA (EHN1)	SPSC/78-36/I 106
I 107	Aachen, Amsterdam, Brown, Brussels/Mons, Helsinki, MIT, Nijmegen, Paris, Serpukhov, Stockholm, Tel-Aviv/Technion/ Weizmann, Warsaw, Yale	W. Kittel	Comparison of hard and soft hadronic interactions in EHS with a $\pi^+/K^+/p$ beam at 250 GeV/c	EHS + part. ident. + IGD and FGD	NA (EHN1)	SPSC/78-40/I 107 SPSC/75-18/P 44
I 108	CERN	A. Stergiou	Study of charmed hadrons in the EHS	EHS + interaction trigger	NA (EHN1)	SPSC/78-41/I 108
I 109	Oxford, Padova, Rutherford, Trieste	A. Bettini	An experiment using the EHS: Investigation of high energy π -meson interactions in hydrogen with particle identification	EHS + part. ident. + photon detectors	NA (EHN1)	SPSC/78-46/I 109
I 110	Brussels, Oxford, Padua, Rutherford, Trieste	C.M. Fisher	A search for direct evidence for charmed particle production in interactions of high energy π^- -mesons in hydrogen	EHS + part. ident. + FGD	NA (EHN1)	SPSC/78-47/I 110