

PROPOSALS AND LETTERS OF INTENT RECEIVED UP TO  
 MAY 6 1977

No	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 1	WA 1	CERN-Dortmund-Heidelberg-Saclay	J Steinberger	High-energy $\nu$ 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 /D- target and vertex localiser approved by NPRC on 3 12.1975	SPSC/P 73-1 SPSC/P 73-1/Add 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
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 $\bar{\nu}p$ and $\bar{\nu}p$ interactions between 75 and 150 GeV/c 2) Study of the leptonic decays $\bar{\nu} \rightarrow \bar{\nu} + \Lambda e^{-\nu}$ and $\bar{\nu} \rightarrow \bar{\nu} + \Lambda e^{-\nu}$	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 1/Add 1 SPSC/I 73-11 SPSC/74-48/M 28

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P 3		CERN-Hamburg-Karlsruhe-Oxford-RHEL-Westfield College	K. Winter	Study of inelastic $\nu$ interactions using a counter set-up	Target-calorimeter and air-cored muon spectrometer	WANF Not recommended by SPSC on 26.2.1975	SPSC/P 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"> <li>1) Dependence of high <math>p_t</math> events on the incident particle (<math>\pi^+</math> <math>K^+</math> <math>p^+</math>)</li> <li>2) Composition of the events as a function of <math>p_t</math> and the nature of the high <math>p_t</math> particle on which one triggers</li> <li>3) Occurrence of jet like correlations suggestive of parton-parton scattering</li> <li>4) Jet cross section, multiplicity composition and mass distribution</li> <li>5) Existence of massive objects such as e.g heavy fire-balls" resonances charmed particles etc. Negative beam at 150 GeV/c</li> </ol>	MMPC 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

No	Expt Code	Institution	Spokesman	Experiment	Apparatus	Remarks	References
P 5	WA 5	Indiana University-Saclav	P. Borgeaud	Measurement in the 20-120 GeV/c range, of two-body and quasi two-body baryon exchange reactions for $ u $ 1 (GeV/c) $\pi^{\pm}$ K $^{-}$ and $\bar{p}$ on unpolarized and polarized protons	Two spectrometers ("Mimosa" 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 (BEC/74-24) (BEC/75-12)
P 6	NA 1	Frascati-Milan-Pisa-Rome	L. Foa	Measurement of $\eta$ lifetime; Search for an $\eta_c$ signal Spectroscopy of new heavy particles in hadronic channels with charged particles and photons	Forward magnet; spectrometer with 5 standard PS beam transport magnets Vertex detector with MWPC inside magnet	NA (H2) 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 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. Weillhammer	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 $K^- p \rightarrow (K^0 \pi^-) p$ over a wide kinematic range and at energies up to 80 GeV	Modified version of CERN-Munich spectrometer. beam target with $4\pi$ anticoincidence counters forward spectrometer with MWPC, Čerenkov 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. Fidicaro	Measurement of polarization in $pp$ and $\pi p$ 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 Čerenkov 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	$\pi^+p \rightarrow \pi^+p$ and $pp \rightarrow pp$ would be measured in the angular range $20^\circ$ to $90^\circ$ cm with incident momenta 20 40 60 and 80 GeV/c. In the forward region one sets data on $K^+p \rightarrow K^+p$ , $\bar{p}p \rightarrow \bar{p}p$ ( $\rightarrow \pi^+\pi^+$ and $K^+K^+$ )	AEG magnet (+ one C magnet at higher energies) MWPC + Cerenkov counter for forward particles MWPC or drift chamber for recoil protons	WA (HI) Approved by NPRC on 4 9 1974 Up-stream of P / in HI	SPSC/74-28/P 9 SPSC/74-49/P 9/Add.1 SPSC/74-61/P 9/Add 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	J Litt	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 14 6 1974 for tagged photon particle. Charmed particle search approved by RB on 15 4 1976	SPSC/74-79/P 10 SPSC/76-17/P 10/Add.1 SPSC/76-87/M 64 SPSC/I 73-8 (EEC/75-39) (EEC/75-43)

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P 11	WA 10	Geneva-Lausanne	N. 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 MWPC and scintillation counter Forward arm without magnet with MWPC and $\gamma$ -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
P 12		CERN-Orsay-Oxford	L. Dick	Spin-dependent effects in hadron-proton interactions measurement of polarization in $\pi p$ Kp and pp elastic and inclusive scattering (or inelastic diffractive processes) between 25 and 100 GeV/c	Polarized target, recoil spectrometer with C magnet, hodoscopes and Ceranov 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 $\bar{p}p$ 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

No	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 15		Saclay	L. van Rossum	Measurement of polarization parameter or target asymmetry in inclusive $\pi p$ 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 F magnet and detectors in side arms from proposal P 8	NA 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	MA 25	Amsterdam-Bologna- Padova-Pisa-Saclay- Turin	A.G. Tenner	$\nu$ reactions $n D_0$ , study of weak hadronic current with protons and neutrons separately 1 Mpx	BEBEC (D <sub>0</sub> )	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.? SPSC/I 73-56 SPSC/74-9/I 56/Add 1



No	Expt Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
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	CERN-DESY-Freiburg- Kiel-Lancaster- Liverpool-Orsay- Oxford-RHEL-Sheffield- RMC Shrivvenham-Turin- Wuppertal	E Gabathuler	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 7 5 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

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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 <sup>-</sup> -target (50 m long) surrounded by magnetized iron torus	NA (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 COTT SPSC/77-12/P 19/Add 4 SPSC/74-82/M 36
P 20		Orsay	B. Dauteray	120 k pictures with $\pi^+$ at 110 GeV/c 4-C physics inclusive production of $K^0$ A, $\bar{A}$ , $\gamma$ $\pi^0$ 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	? 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 (?)	WA Merged with P 13 + P 47 See P 63	SPSC/74-87/P 22 SPSC/I 73-19

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P 23	WA 19	Aachen-CERN-Oxford	D.C. Cundy	Total and differential cross sections of $\nu$ and $\bar{\nu}$ on Neon; neutral currents 250 kpx	BEEC (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
P 24	NA 3	CERN-College de France-Ecole Polytechnique (Palaiseau)-Orsay-Saclay	A. Michelini	Hadronic production of high- $p_T$ leptons and hadrons	Forward spectrometer e- $\gamma$ detectors hadron calorimeter	NA Approved by NPRC on 1. 3 1975	SPSC/74-90/P 74 SPSC/77-4/M 71

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P 25	WA 21	Aachen-Bonn-CERN-Oxford	G. Mvatt	$\nu$ and $\bar{\nu}$ interactions in hydrogen. 500 kpx	BEBC (H <sub>2</sub> ) + 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 5. SPSC/76-111/M 69
P 26	WA 9	Clermont-Ferrand-Leningrad-Lyon-Uppsala	T Ekelof	High precision study of elastic scattering in Coulomb interference region	Ionisation chamber recoil spectro-meter for magnetic spectro-meter	WA Approved by NERC on 22 1 1975 for minimum programme	SPSC/74-94/P 26 SPSC/75-34/P 26/Add 1 SPSC/74-56/I 62 SPSC/74-55/M 31

o	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
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	NA	SPSC/74-96/P 27 SPSC/I 73-3 SPSC/I 73-34
28		Pavia-Torino	G. Rinaudo	pp-interactions below 100 GeV/c ( x 50 kpx)	BEBC	WA	SPSC/74-104/P 28 SPSC/76-18/P 28/Add 1

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29		Bari-CERN-Liverpool-Milan	B. French	Detailed study of hadronic interactions producing high- $p_T$ particles	Vertex detector forward lever arm	NA SPSC decision deferred on 26 2.75	SPSC/74-112/P '9 (D.Ph II/TEC 74-1) (D.Ph II/PHYS 75-1)
30 + 33	WA 24	Bari-Birmingham-Brussels-Ecole Polytechnique (Palaiseau)-Univ Coll London-RHEL-Saclay	W Venus	$\nu$ and $\bar{\nu}$ interactions in hydrogen filled track sensitive target 500 kpx	BEEC + 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/I 73-13 SPSC/77-19/M 74

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31 +46	WA 14	Bari-CERN-Ecole Poly-technique (Palaiseau)-Milan-Orsav	A. Pullia	Leptonic processes dilepton events $\nu_e$ interactions on nucleons and coherent production of vector mesons induced by $\nu$	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
32		LPNHE Paris	M. Baubillier J Laberrigue	$K^+ p^-$ interactions at 70 GeV/c 600 kpx	BEBC + 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 $\nu$ and $\bar{\nu}$ 500 kpx	BEBC + TST	WANF (WB) See also P 30	SPSC/74-119/P 33 SPSC/75-4/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
P 34 + P 39	WA 15	Aachen-Bergen-Brussels- Univ College London- Strasbourg	J Morfin	Study of purely leptonic and other rare $\nu$ interactions	GCM + 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

Io	Expt Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
35		Aachen-CERN-Oxford	K. Schultze	$\nu$ - interactions with protons and neutrons 500 kpx	BEBC (D <sub>2</sub> ) + EMI	WANF (NB)	SPSC/74-123/P 35 SPSC/75-66/M 52
36		Aachen-Bari-Brussels- CERN-Univ College London	W Van Doninck	Detailed study of muonless events induced by $\nu$ interactions on protons and neutrons 500 kpx	BEBC (H <sub>2</sub> + Ne) + TST (D <sub>2</sub> ) + EMI	WANF (NB)	SPSC/74-126/P 36 SPSC/I 73-13

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P 37	NA 5	Karlsruhe-MPI Munich	P Sevboth	Search for charmed mesons and baryons	Vertex detector magnet with streamer chamber downstream lever arm with streamer chamber trigger spectrometer	NA Approved by NPRC on 4 6 1975	SPSC/75-1/P 77 SPSC/75-38/P 37/Add 1 SPSC/76-62/P 37/Add. SPSC/74-86/I 65 SPSC/77-18/M 73
P 38	WA 26	Glasgow-LPNHE Paris-RHEL-Saclay	R. Barloutaud	$\bar{K}^0$ 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

No	Ept. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 30		Aachen	J Morfin	Purely leptonic and other rare $\bar{\nu}$ interactions in propane-freon mixture. 600 kpx	GCM	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 Orsav- Oxford	L. Dick	Spin effect and differential cross sections in elastic hadron-hadron scattering	Solenoid spectrometer polarized proton target, position sensitive scintillation counters forward	NA 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	NA	SPSC/75-13/P 41
P 42		CERN-Heidelberg-Oxford-Rutgers-Stockholm	L. Montanet	Study of multihadron events involving identified particles	RCBC, ISIS Cerenkov and downstream spectrometer	NA Part A approved by RB on 7/4 6 1976	SPSC/75-15/P 42 SPSC/75-22/P 42/Add 1 SPSC/76-43/P 42/Add 2/Rev SPSC/75-40/I 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	NA	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	NA	SPSC/75-18/P 44

No	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 45		Florence-Genova-Padova- LPNHE Paris-Paris VII- Rome-Trieste	D Zanello	External $\gamma$ -ray detector for BEBC with IST	$\gamma^-$ 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 $\nu$ 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 /P 31/Add.1 SPSC/76-9/P 46/Add.3 /P 31/Add. SPSC/76-45 /P 46/Add.4 /P 5_/Add.1 SPSC/76-103/P 46/Add.5 /P 53/Add 1

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P 47		Heisinki-Stockholm	G Ekspong	Study of $\bar{p}$ p interactions at 70 GeV/c	BEBC	WA See P 63	SPSC/75-49/P 4/ SPSC/I 73-57
P 48		Bonn-Imperial College London-MPI Munich	R. Hartmann	Study of $\bar{\nu}$ and $\nu$ interactions at highest available SPS energies	BEBC (Ne + H <sub>2</sub> ) with D <sub>2</sub> -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 $\nu$ and $\bar{\nu}$ interactions	Target calorimeter surrounded by magnetized iron	WANF Study of semi-leptonic $n c$ processes and of $\mu^-$ polarization approved by RB on 8 7 1976	SPSC/75-59/P 49 SPSC/76-51/P 49/Add.1 SPSC/74-1/I 58 SPSC/76-114/M 70
P 50		Turin	C. Franzinetti	$\gamma$ - ray detector in BEBC for $\nu$ experiments	BHC + metal plates or Neon bag	WANF	SPSC/75-61/P 50

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P 51	WA 20	Aachen-Bonn-CERN-Oxford	G. Myatt	Beam dump test in BEBC Ne + H <sub>2</sub> experiments	BEBC (Ne + H <sub>2</sub> )	WANF Approved by RB on 26.8 1976	SPSC/75-65/P 51
P 52	WA 23	CERN-Milan-Orsay	C. Matteuzzi	Study of neutral current interactions with $\nu$ and $\bar{\nu}$ dichromatic beams	GGM; NB beam with 60 GeV parents	WANF $\nu$ - part approved by RB on 26.8 1976	SPSC/75-69/P 52 SPSC/76-45/P 52/Add 1 SPSC/I 73-53

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P 53	WA 16	CERN-Ecole Polytechnique (Palaiseau)-Orsay-Strasbourg	B. Aubert	Exploratory experiment at very high $\nu$ energy	GGM; NB beam	WANT Approved by RB on 8 7 1976	SPSC/75-71/P 53 SPSC/I 73-30 SPSC/I 73-53
P 53Ad.1 + P 46Ad.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	Approved by RB on 10 3 1977	SPSC/76-103/P 53/Ad.1 SPSC/77-22/M 75
P 54		Turin	C. Franzinetti	$\nu$ interactions in freon with narrow band beams from $\pi$ 's and K's of 60 140 and 275 GeV/c	GGM, NB beam	WANT	SPSC/75-77/P 54

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

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P 57	MA 28	Aachen-Berlin-CERN-Cracow-I C. London-Vienna-Warsaw	K.W.J Barnham	K <sup>+</sup> p interactions at highest available momentum ( $\sim 110$ 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	MA 11	Saclay-Indiana Univ	P Borgeaud	Search of multiparticle decays of high mass states produced with the $\psi$ (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

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P 59		Mons	F Grard	Study of strange meson production and of reactions with high $p_T$ in pp and $\pi^-p$ interactions at 100 GeV/c	RCBC (Hybrid system)	NA	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	Remarks	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/77-11/M 70
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	SPSC/76-16/P 63
P 64	WA 30	Bologna-Glasgow- RHEL-Saclay-Torino	G. Kalms	Investigation of direct electron produc- tion 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



No	Expt Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 65	WA 31	Brussels-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 $\bar{p}p$ interactions in 4 1 GeV c.m. energy region	Omega	WA P66/Add. approved by RB on 14 4 77	SPSC/76-24/P 66 SPSC/76-54/P 66/Add 1 SPSC/76-60/P 66 Rev SPSC/77-23/P 66/Add SPSC/76-46/T 16

No	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 67	WA 13	CERN-College de France	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	D.R. Ward	Production of neutral particles in $\bar{p}p$ interactions at 150 GeV/c	BEBC	WA	SPSC/76-34/P 68

No	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
P 69	WA 29	Liverpool	J.R. Fry	Study of $\bar{p}$ annihilation mechanism in $4\pi$ and $6\pi$ 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-Strasbourg- Turin	M. Conversi	Investigation of di-muon events and search of new particles in $\nu$ interactions	BEBC + Emulsion + EMI	WANF Approved by RB on 8 7 1976	SPSC/76-41/P 70

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 <sub>2</sub> +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 $\nu_{\pi}$ and $\nu_K$	BEBC (H <sub>2</sub> +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

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 S1-beam	✓ Cerenkov-counters and MWPC in S1 beam	WA Approved by RB on 25 11 1976	SPSC/76-55/P 73
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 <sub>2</sub> gas target + MWPC, n-vertex detector calorimeter	NA 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-Florence- Genova-Paris VI- Valencia and see Lab WA 4	G. Diambri- Palazzi	Study of charmed particles photo produced in emulsion plates tagged by the $\Omega$ 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

No	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
79	WA 35	Darmstadt-Heidelberg-Virginia-Warsaw	B Povh	Measurement of multiplicity correlations of p and $\pi$ in hadron-nucleus collisions below 100 Gev	Scintillator/Cerenkov 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
80		Bari-Rutgers-Strasbourg	A. Fridman	Negatively charged hyperons induced reactions and p annihilations	Streamer chamber + spot focusing Cerenkov counter	NA 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		Bologna-CERN-INFN	A. Zichichi	Search for quarks in neutrino interactions	<p>a) Counters in front + behind bubble chambers</p> <p>b) Modification of WA 1 + WA 18</p>	WA	SPSC/77-10/P 81
P 82		Bristol-Geneva-Heidelberg-Lausanne-Rutherford	P Extermann	Strong interactions of charged hyperons	Magnetic spectrometer and prop chambers + TOF for recoil protons	WA	SPSC/77-24/P 82

No	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
83		Southampton-Westfield College Frascati-Milan-Pisa Rome (FRAMM)	S.G.F. Frank	Measurement of electro-magnetic form factors of $\pi$ and K mesons	FRAMM spectrometer preceeded by MMPC	NA	SPSC/77-30/P 83 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
84		Birmingham-CERN-Neuchâtel-Ecole Polytechnique-Rutherford	J D. Dowell	Study of di-muon production by $\pi^+ K^+$ and $\bar{p}$ at 40 GeV/c	Omega	WA	SPSC/77-32/P 84

No.	Expt. Code	Labs	Spokesman	Experiment	Apparatus	Remarks	References
85		Bologna-CERN-USSR	V P. Martemianov	Magnetic monopole search	Beam dump targets		SPSC/77-37/P 85

No	Labs	Sponsoring	Experiment	Apparatus	Remarks	References
I 1	Marburg	R. Brandt	Nuclear chemistry (absolute monitor of reactions in Cu, Au, Bi, U "strange decays as spontaneous fission)	(no detail)	no internal irradiation facility available. Would be "Beam Jump exct. 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	$p + \text{nucleus} \rightarrow \mu^+ + \mu^- + \text{anything at } 400 \text{ GeV to } c \approx 10^{-19} \text{ cm with } 10^{-1} p/p \Delta M/M = \pm 5\% \text{ for } 5 \text{ GeV} < M < 25 \text{ GeV}$	Beam dump in 1 m target 10 m steel wall MWPC-planes with $F = -0. \text{ mm}$	NA, behind zone	SPSC/I 73-3 SPSC/74-96/P 27
I 4	HEPL Stanford	R. Hofstadter	Backward inelastic inclusive proc. $p + p \rightarrow p + p$ $\rightarrow p + x$ $\rightarrow \pi^+ + x$ $\rightarrow K^+ + x \text{ etc. etc.}$ Coincidence with High Res Spectr (1 arm) + TANC detector or particle or $\gamma$ -detector 2nd arm. $p + p \rightarrow p + p + x (+ \text{ elast.})$	168" 2.5 GeV/c high resolution large acceptance spectrometer 180° bend $\Delta p/p = 10^{-4}$	NA possible Not recommended by SPSC	SPSC/I 73-4
I 5	Bergen	O. Skjeggstad	$\nu$ -physics	Gargamelle	WA	SPSC/I 73-5 SPSC/74-122/P 34
I 6	Bari	S. Natali	$\nu$ -physics	Gargamelle	WA	SPSC/I 73-6 SPSC/74-117/P 31
I 7	-	P. Schlein	High $p_t$ processes	Total absorption calorimeter	NA	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	$\gamma$ e-physics 20 - 100 GeV	Omega	WA (NA, combined e <sup>-</sup> hadron beam planned).	SPSC/I 73-8 SPSC/74-29/P 10
I 9	CERN Trieste Vienna	G. Fidencaro	d $\sigma$ /dt and polariz. parameter P for $\bar{p}p \rightarrow \bar{p}p \quad \bar{p}n \rightarrow np$ $\rightarrow pn$ between 25 $\rightarrow$ 150 GeV/c and t 3 (GeV/c)	Little detail. WMPC or drift ch. $\sim 10^8$ p/p	WA (H 1) for low E NA (H 4 H 8) for high E.	SPSC/I 73-9 SPSC/74-11/P 8
I 10	Athens Democritos Liverpool Nijmegen	R. Van de Walle	$K^+p$ 70 GeV/c	BEBC (H <sub>2</sub> ) (+EHT <sup>2</sup> )	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 spectrom- eter	WA	SPSC/I 73-11 SPSC/P 73-
I 12	Aachen CERN Oxford	D Cundy	$\nu$ -physics	BEBC (Ne) + EMI	WA	SPSC/I 73-12 SPSC/74-88/P 23
I 13	Brussels	J Sacton	$\nu$ -physics	Bubble Chamber	WA	SPSC/I 73-13 SPSC/74-116/P 30 SPSC/74-126/P 36
I 14	LEPHE	J Duboc	$K^+p$ 70 GeV/c	BEBC (H <sub>2</sub> ) hybrid (charged particle) identifier TST ext. $\gamma$ -detector	WA	SPSC/I 73-14 SPSC/74-110/P 32

No	Labs.	Spokesman	Experiment	Apparatus	Remarks	References
I 15	Daresbury Lancaster Liverpool Oxford Sheffield, R.M.C Schriftenham, Coll de France IPN Orsay Bonn (DESY) Wuppertal CERN	E. Gabathuler	$\mu$ -physics up to 250 GeV	Forw spectrometer stages Trajec mea- sured by $W_1$ - $W_2$ $r = \pm 0.15$ mm. Large detector 2 x 2m x 1m gap C-magnet, beam through voke Wire ch. inside + out- side or streamer	NA zone 2 macron length 4 + 7m. 200 evts/10 <sup>8</sup> p litre polarized target planned	SPSC/I 73-15 SPSC/I 73-15 Rev SPSC/74-76/P 10
I 16	University College	D.J Miller	$p, \pi^-$ -proton up to 200 GeV/c	BEBC ( $H_2 + Ne$ ) + TST ( $H_2$ ) + forward $\gamma$ -detector	WA	SPSC/I 73-16
I 17	University College	F W Bullock	$\nu$ -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 18
I 19	Mons	F Graud	$K^+ 30-75$ 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	$\nu$ -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 ( $H_0$ ) later with Čerenkov- beam-tagging TST	WA	SPSC/I 73-22
I 23	CERN Hamburg Karlsruhe Oxford RHEL, Westfield College	K. Winter	$\nu$ -physics	Hadron ionisation calorimeter	NA	SPSC/I 73-3 SPSC/P 73-3 SPSC/75-59/P 49
I 24	Orsay	B. Daugerac	$\pi^+$ highest momentum	BEBEC ( $H_0$ )	WA	SPSC/I 73-24 SPSC/74-80/P 20
I 25	Orsay	B. Daugerac	$\pi^+$ $\pi^-$ high momentum	BEBEC ( $H_0$ + Ne) TST with deuterium	WA	SPSC/I 73-25 SPSC/74-80/P 20
I 26	Ecole Polytech- nique	P Petiau	$\nu$ -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	L Damerell	Hadron physics $\rightarrow$ 150 GeV/c	Focusing spectro- meter	WA	SPSC/I 73-27
I 28	Aachen, CERN Oxford	G. Myatt	$\nu$ -physics	BEBEC ( $H_0$ ) + EMI	WA	SPSC/I 73-28 SPSC/74-91/P 25

No	Labs	Spokesman	Experiment	Apparatus	Remarks	References
I 29	Aachen, Bari, Bergen, Brussel, UC London, CERN Milano, Padova, Ecole Polyt., JRAY Strasbourg Torino	A. Rousset	$\nu$ -physics	Bubble chambers	WA, review of programme of LL Laboratories	SPSC/I 73-29
I 30	CERN	A. Rousset	$\nu$ -physics	BIBC GGM	WA	SPSC/I 73-30 SPSC/75-71/P 53
I 31	College de France	C. Chesquiere	$\pi^+ K^+ \bar{p}$ 30-50 GeV/c	BIBC (H <sub>2</sub> + EHI + wire ch. in beam + $\gamma$ -detection (+TST))	WA	SPSC/I 73-1
I 32	Athens (Democritus + Univ) Liverpool	H. Muirhead	$\bar{p}$ 50 + 100 GeV	BIBC (H <sub>2</sub> ) (+EHI)	WA	SPSC/I 73-32 SPSC/74-60/P 1.
I 33	IPN Orsay	T. Willits	$\pi^+ p \rightarrow \pi^0 n$ 10 25 and 50 GeV/c	Frozen spin polar target + n-detector + $\gamma$ -detectors	WA	SPSC/I 73-33 SPSC/74-44/P 1. SPSC/75-9/P 40



No.	Labs	Spokesman	Experiment	Apparatus	Remarks	References
I 34	Oxford	A.M. Seagar	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 Zanella	External $\gamma$ -detector for BEBC	MMPC + lead glass counter	WA	SPSC/I 73-35 SPSC/75- 4/P 45
I 36	Milan, Pisa Rome	L Foa	Comparative study of hadron fragmentation	Cylindrical chamber around target + forw spectrometer	NA	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 MMPC (and downstream $K^+$ -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	Jaclov	Y Ducros L. van Rossum	Polarization measurements in $\pi p$ and $K p$ inelastic reactions: elast. scatt. at large momentum transfer	Polarized target large angle detector system + forw $K^+$ -counter		SPSC/I 73-39 SPSC/74-71/P 15
I 40	Bonn	K. Bockmann R. Hartmann W Meincke	$\nu^-$ and $\bar{\nu}$ -interactions	BEBC ( $H_0$ )	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	College de France, Ecole Polytechnique Orsay MPI + Univ Munich Saclay	J Leiraçois	Hadron electron and photon physics	Multi-parti le spec- trometer	NA	SPSC/I 73-42
I 43	Geneva	M. Martin C. Nef	Energy dependence of two-body reac- tion $K^+p \rightarrow K^{*+}p$ $\downarrow$ $K^0 \pi^+$	C-counter + hodoscope in beam; proton + de- cay analyser with PWC	WA	SPSC/I 73-43 SPSC/74-31/P 11
I 44	Milan	E. Fiorini	$\nu$ -physics	Gargamelle	WA	SPSC/I 73-44 SPSC/74-117/P 31 SPSC/75-69/P 52
I 45	Lausanne Neuchatel	E Jeannot	Incident part. + p $\rightarrow \Lambda^0 + K^+ +$ $\pi^0 + \pi^0 +$ fragmentation of proton-target, coherent reactions on He	Streamer chamber "Dardanelle"		SPSC/I 73-45
I 46	Geneva	O. Gulsan	Form factor of $\pi^+$ 's and $K^+$ 's	$K^+$ -counter forward analyzing system with wire ch (+ shower detector)	NA	SPSC/I 73-46
I 47	CERN MPI Munich	P Weillhammer	Few-body reactions	CERN-Munich spectro- meter	WA	SPSC/I 73-47 SPSC/74-14/P 7
I 48	Bristol Southampton	J.G.F Frank	Form factor of $\pi^-$	Forward magnetic spec- trometer from P 6	WA	SPSC/I 73-48 SPSC/74-85/I 48/Agd.1
I 49	Oxford	N.E. Booth	$\nu$ -e interactions	100 modules each with 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 re- sonance physics	Multiparticle spectro- meter with MWPC + ? Morpurgo magnets	WA	SPSC/I 73-50 SPSC/74-J/P 4

No	Labs	Spokesman	Experiment	Apparatus	Remarks	References
I 51	Ecole Polytechnique	V Brisson	$\nu$ -physics	BEBC (H $D_2$ )	WA	SPSC/I 73-51 SPSC/74-119/P 33
I 52	Graz Illinois Inst. Techn. Purdue	T Eber	High-energy magnetic Bremsstrahlung	Pulsed megagauss fields.	Not recommended by SPSC	SPSC/I 73-52
I 53	Orsay.	A. Lagarrigue	$\nu$ -physics	GGM BEBC	WA	SPSC/I 73-5 SPSC/75-69/P 52 SPSC/75-71/P 53
I 54	CERN ETH	W Beusch	Resonance-nucleon scattering	Shower detector (with Omega).	WA	SPSC/I 73-54 SPSC/74-51/M 29
I 55	Pavia	Ratti	Hadron fragmentation 30-70 GeV	Magnetic spectrometer in $\omega$ -beam.	WA, withdrawn 25 6 1974	SPSC/I 73-55
I 56	Amsterdam, Bologna Padua Pisa Saclay Torino	A Tenner	$\nu$ -physics	BEBC (E $\nu$ )	WA	SPSC/I 73-56 SPSC/74-9/I 56/Add 1 SPSC/74-72/P 16
I 57	Scand BC-Collab (Helsinki Stockholm)	J Nilsson	$\bar{p}p$ -reactions 30-70 GeV	BEBC	WA	SPSC/I 73-57 SPSC/75-49/P 47
I 58	Frascati Naples	G. Barbellini	$e$ -lepton scattering	Scintill counter + spark chambers	WA	SPSC/74-1/I 18 SPSC/75-19/P 49
I 59	Aachen	J von Krogh, K. Schultze	$\nu$ -physics	GGM	WA	SPSC/74-1/I 19 SPSC/75-5/P 39

No	Labs	Spokesman	Experiment	Apparatus	Remarks	References
I 60	DESY	H. Meyer	$\nu$ -e scattering	Streamer chamber with CH <sub>2</sub> plates and scintillation counters.	WA	SPSC/74-5/I 60
I 61	Birmingham.	J.D. Dowell	Rare meson systems from $K^+ p$ collisions at 16 and 32 GeV/c	Omega (with lever arm for 32 GeV/c)	WA	SPSC/74-50/I 61 SPSC/74-64/P 21
I 62	Leningrad, Uppsala	T. Ekelof	Hadronic interactions at very small momentum transfers	Ion chamber spectrometer (rocoil) + 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 $\Sigma$ and $\Lambda$ . GeV/c	Magnet spark chamber in shortened $\Sigma$ 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	NA Not recommended by SPSC	SPSC/74-60/I 64
I 65	MPI Munich	P. Seyboth	Multi-particle hadron physics	Streamer chamber and vertex magnet	NA	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 + forward detector	NA	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 $\bar{p}p$ interactions at 50, 100, 150 and 200 GeV/c	Rapid cycling bubble chamber + EPI	NA	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	NA	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	NA	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	NA	SPSC/75-5-/I 70
I 71	Serpukhov	P. V. Chlapanikov	Study of $K^+p$ and $K^-p$ interactions at 70 GeV/c	BBBC	WA	SPSC/75-53/I 71 SPSC/75-84/P 5c
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/75-4/I 72
I 73	Moscow (ITEP)	V. S. Kaftanov	Study of $\nu$ e-scattering	Spark chambers	WA	SPSC/75-55/I 73
I 74	Kurchatov Inst. Novosibirsk	I.I. Gurevich	Magnetic monopole search	Beam dump	NA	SPSC/75-56/I 74
I 75	Yerevan	A.G. Oganessian	Hadron identification by transition radiation detector in polarization measurements		WA	SPSC/75-57/I 75
I 76	Padua	M. Baldo-Ceolin	Study of $\nu$ -electron interactions	spark chamber + $\gamma$ shower counters	WANF	SPSC/75-79/I 76
I 77	Serpukhov	V.A. Yarba	Study of $\nu$ and $\bar{\nu}$ interactions (1 Mpx)	BBBC + TST (D $\gamma$ )	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 $\nu$ 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 $\mu$ -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 $4\pi$ and $6\pi$ final states at 16 GeV/c	Omega	WA	SPSC/76-77/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 $\nu$ -interactions induced by $\nu_\pi$ and $\nu_K$ 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 <sub>2</sub> + Ne)	WA	SPSC/76-48/I 84 SPSC/76-50/P 71
I 85	Aachen, Bonn, CERN Oxford	D R.O Morrison	Study of $\nu$ and $\bar{\nu}$ interactions	BEBC	WANF (NB)	SPSC/76-64/I 85
I 86	FNAL, Pavia, Strasbourg	P Schubelin	Particle production associated with rare hadron induced processes	4 fast vertex detector fwd spectrometer	NA	SPSC/76-81/I 86

No	Labs	Spokesman	Experiment	Apparatus	Remarks	References
I 87	Annecy (LAPP) CERN Marseille, Padova, Serpukhov Trieste Vienna	G. Fidicaro	Study of spin effects using a polarized beam facility	Polarized target backw detectors fwd. spectrometer	NA	SPSC/76-95/I 87
I 88	ETH Zurich	P Jenni	Inclusive production of massive muon pairs with intense pion beams		NA	SPSC/77-20/I 88
I 89	Rutherford, Rome, College 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	NA	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	NA	SPSC/77-43/I 90
I 91	Bonn CERN Bonn Zurich Bonn Paris, V. Rutherford Sheffield	M.A. KEMP	Study of $\pi^+ \pi^-$ system produced by electron & photon pairs with a multi-particle detection system at high intensity & high energy			SPSC/77 65/I 91
I 92	Bonn Bonn	M. MANDL	Study of $\pi^+ \pi^-$ system produced by incident $\pi^+$ & $\pi^-$ at 10 GeV/c with the RICH spectrometer equipped by a MIPCA detector			SPSC/77 86/I 92
I 93	L.A. OASIS, MINHE Release	SIX	Study of charge exchange reactions in the $\pi$ system			SPSC/77 6+I 93
I 94	CERN Gesslow Lough	B.R. FRENCH	Study of $\pi^+ p$ reactions involving a nuclear substructure in the $\pi$ system at 100 (80) GeV/c using the RICH spectrometer			SPSC/77-68/I 94
I 95	CERN coll de France Montreal	P. SUNDENGEER	Two body reactions at 90 in $\pi$ system			SPSC/77 69/I 95

No	LADS	spokesman	Experiment	Appointments	Remarks	Reference
I 45	Rome, Physics CERN U.C. London U.C. Dublin Stirling	H S BUCHOP	<p>SI to submit for proposal the study of short-lived particles produced in <math>\nu</math> interactions in emulsion stacks limited to 600</p>			SPS-77 88 / Z 96
I 47	Amberg - ERN Lipshagen Jena Göteborg, U.C. Mainz (WAT Cole)	J P GUILLAUD	<p>large angle elastic scattering at 300 GeV in EHN's</p>			SPSC 77 AAA / I 97
I 48	Amsterdam - CERN Rutherford - Jny Hill MP. Munich Mainz Aachen	P WEINHAMMER	<p>A programme of photo production in a very high energy &amp; high intensity photon beam</p>			SPSC 77 146 / I 98