

a) PROPOSALS

No.	Exp. Code	Lab.	Contact	Experiment	Apparatus	Remarks	References
P 1	WA 1	CERN, Dortmund, Heidelberg, Saclay.	J. Steinberger	High-energy neutrino interactions.	Magnetic muon spectrometer + hadronic shower detector.	WANF; Approved by NERC 17.4.1974 as described in CERN/SPSC/74-36/M 25; H <sub>2</sub> /D <sub>2</sub> target accepted.	SPSC/P 73-2 SPSC/P 73-1/Add. SPSC/74-6/P 1/Add.2 SPSC/M 73-11 SPSC/74-26/M 21 SPSC/74-38/M 23 SPSC/74-53/M 30 SPSC/74-65/R 13
P 2	WA 2	Geneva, Heidelberg, Marseille, Orsay, CNRS, Strasbourg.	G. Sauvage	1) Elastic scattering and production of strange particle resonances by diffractive excitation in $\bar{p}$ -p and $\bar{p}$ -p interactions between 75 and 150 GeV/c. 2) Study of the leptonic decays $\bar{E} \rightarrow Ae^+ \bar{\nu}$ , $E^- \rightarrow \nu e^- \bar{\nu}$ and $\bar{E}^+ \rightarrow Ae^+ \bar{\nu}$ .	Hyperon beam; MWPC (backward) + forward spectrometer.	WA Study of leptonic decays approved by NERC on 12.6.1974.	SPSC/P 73-2 SPSC/74-34/P 2/Add.1 SPSC/I 73-11 SPSC/74-35/M 28
P 3		CERN, Hamburg, Karlsruhe, Oxford, INFN, Westfield College.	K. Winter	Study of inelastic neutrino interactions using a counter set-up.	Target-calorimeter and air-cored muon spectrometer.	WANF Not recommended by SPSC on 26.2.75	SPSC/P 73-3 SPSC/74-8/P 3/Add.1 SPSC/75-7/P 3/Add.2 SPSC/74-26/M 21 SPSC/74-40/M 26 SPSC/74-34/M 37 SPSC/75-11/M 44
P 4		Saïi, Caen, CERN, Liverpool, Milan.	B. Pionch	1) Dependence of high $p_t$ events on the incident particle ( $\pi^+$ , $K^+$ , $p^+$ ). 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/74-48/E 4/Add.1 SPSC/I 73-20

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P 5	WA 5	Indiana University, Saclay.	P. Bareyre	Measurement in the 20-120 GeV/c range, of two-body and quasi two-body baryon exchange reactions for $ u  \leq 1$ (GeV/c) <sup>2</sup> . $\pi^+$ , $K^+$ and $p$ 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 unpolar. protons. On common beam line with P 8 (H2)	SPSC/74-10/P 5 SPSC/74-41/P 5/Add.1 (EEC/74-24) (EEC/75-12)
P 6	NA 1	Bologna, Frascati, Milan, Pisa, Rome.	L. Foà	Comparative study of hadron fragmentation, induced by different projectiles interacting with protons and nuclei. Energy range from 100 GeV/c upwards.	Forward magnetic spectrometer with 5 standard PS beam transport magnets. Vertex detector with MWPC inside magnet.	NA (H 2). Forwd. part without vertex magnet approved by NPRC on 12.3.75.	SPSC/74-15/P 6 SPSC/74-23/P 6/Add.1 SPSC/74-83/P 6/Add.2 SPSC/I 73-36 SPSC/74-20/M 47
P 7	WA 3	Amsterdam, CERN, Munich, Oxford, RHEL.	P. Weilhammer	Study of the quasi-two-body hadron reactions $\pi^+p \rightarrow (\pi^+\pi^-)n$ , $(K^+K^-)n$ , $(pp)n$ , $\pi^+p \rightarrow (\pi^+\pi^+)n$ , $K^+p \rightarrow (K^+\pi^+)n$ , $\pi^+p \rightarrow (K^+K^0)p$ , 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 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 H 1	SPSC/74-14/P 7 SPSC/I 73-47 SPSC/74-55/M 31
P 8	WA 6	CERN, Trieste, Vienna.	G. Fidicaro	Measurement of polarization in pp and pp 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 (H 1) Approved by NPRC on 4.9.74, on common beam line (H 3) with P 5.	SPSC/74-17/P 8 SPSC/74-54/P 8/Add.1 SPSC/I 73-9 (EEC/74-24) (EEC/75-12)



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P 12		CERN, Orsay, Oxford.	L. Dick	Spin-dependent effects in hadron-proton interactions: measurement of polarisation in $\bar{p}p$ , $Kp$ 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 Čerenkov 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
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 $pp$ reactions, especially in relation to $pp$ data at corresponding energies.	BEBC	WA	SPSC/74-60/P 13 SPSC/I 73-32
P 14		Birmingham, Brussels, CERN, Genova, Mons.	J.B. Kinson	500,000 picture exposure in 70 GeV/c $K^+$ separated beam, with external particle identifier (EPI). Systematic study of hadronic reactions.	BEBC + EPI	WA	SPSC/74-47/P 14 SPSC/I 73-19 SPSC/I 73-21
P 15		Saclay.	L. van Rossum	Measurement of polarization parameter or target asymmetry in inclusive $\bar{p}p$ and $pp$ reactions at large transverse momentum. Momentum region from 50 to 150 GeV/c.	Polarized target, analyzing magnet, forward- and side arm detectors. PT magnet and detectors in side arms from proposal P8.	NA Not recommended by SPSC on 2.4.75.	SPSC/74-71/P 15 SPSC/I 73-9 SPSC/I 73-39
P 16		Amsterdam, Bologna, Padova, Pisa, Saclay, Turin.	A.G. Tenner	$\nu$ - and $\bar{\nu}$ -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.	SPSC/74-72/P 16 SPSC/74-105/P 16/Add.1 SPSC/I 73-56 SPSC/74-9/I 56/Add.1

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P 17		Athens, Democritos, Liverpool, Nijmegen, Tel-Aviv, Vienna.	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.	BEEC (+EPI)	WA	SPSC/74-73/P 17 SPSC/I 73-10 SPSC/74-75/M 35
P 18	WA 2	CERN, Daresbury, DESY, Freiburg, Kiel, Lancaster, Liverpool, Orsay, Oxford, Sheffield, R.M.C. Strivenham, Turin, Wuppertal.	E. Gabathuler	Test of scale invariance in muon-nucleon scattering at large momentum transfer, followed by programme of muon physics.	Forward spectrometer.	NA (EHN 2) Forw. spectrom. part approved by NPRC on 12.3.75.	SPSC/74-73/P 18 SPSC/I 73-15 SPSC/I 73-15 Rev. SPSC/74-62/R 10
P 19	WA 4	CERN, Dubna, Munich, Rome	C. Rubbia	Inclusive muon scattering on hydrogen and deuterium to the highest energies and four-momentum transfers available.	H <sub>2</sub> -target (50 m long) surrounded by magnetized iron torus.	NA (EHN 2) Reduced version approved in principle by NPRC on 9.4.75.	SPSC/74-79/P 19 SPSC/74-103/P 19/ADD.1 SPSC/74-108/P 19/ADD.2 SPSC/74-120/P 19/ADD.3 SPSC/74-82/M 36 SPSC/75-32/R 22
P 20		Orsay	B. Dauger	120 k pictures with $\pi^+$ at 110 GeV/c. 4-C physics; inclusive production of $K^0$ , $\Lambda$ , $\bar{\Lambda}$ , $\gamma$ , $\pi^0$ etc; correlations and cluster production in high multiplicity events.	BEEC	WA	SPSC/74-80/P 20 SPSC/I 73-24 SPSC/I 73-25
P 21	WA 8	Birmingham	J.D. Dowell	Study of rare meson system in $K^+p$ collisions at 18 GeV/c and 52 GeV/c.	Omega with RF separated beam.	WA Approved by NPRC on 22.1.75	SPSC/74-84/P 21 SPSC/74-50/I 61
P 22		Brussels, Mons.	J. Lemonne	2 x 200 k pictures (1) & (2) with $\bar{p}$ at 70 GeV/c. Study of multiparticle final states and properties of annihilation reactions.	BEEC + EPI (1) BEEC+TST+EPI (2)	WA	SPSC/74-87/P 22 SPSC/I 73-19

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P 23		Aachen, CERN, Oxford	D.C. Cundy C. Myatt, K. Schultze	Total and differential cross sections of $\nu$ and $\bar{\nu}$ on Neon; neutral currents. 250 kpx.	BEBC (Ne) + EMI	WANF (NB)	SPSC/74-88/P 23 SPSC/I 73-12
P 24	NA 3	CERN, Coll. de France, Ec. Pol., Orsay, Saclay	W. Kienzle, A. Michelini	Hadronic production of high- $p_T$ leptons and hadrons.	Forw. spectrometer e- $\gamma$ detectors, hadron calorimeter	NA Approved by NPRC on 12.3.75.	SPSC/74-90/P 24 SPSC/75-8/R 21
P 25		Aachen, Bonn, CERN, Oxford	G. Myatt	$\nu$ and $\bar{\nu}$ interactions in hydrogen. 500 kpx.	BEBC (H <sub>2</sub> ) + EMI	WANF (WB)	SPSC/74-91/P 25 SPSC/I 73-28 SPSC/I 73-40
P 26	WA 9	Clermont-Ferrand, Leningrad, Lyon, Uppsala	T. Ekelöf	High precision study of elastic scattering in Coulomb interference region.	Ionisation chamber recoil spectrometer; forw. magnetic spectrometer	WA Approved by NPRC on 22.1.1975 for minimum programme.	SPSC/74-94/P 26 SPSC/75-31/P 26/Ad.1 SPSC/74-56/I 62 SPSC/74-55/M 31
P 27		CERN, Imperial Coll., 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
P 28		Pavia, Torino	G. Rinaudo (Mrs)	pp-interactions at 50 GeV/c.50 kpx	BEBC	WA	SPSC/74-104/P 28
P 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 29 SPSC/75-8/R 21 (D.P.II/TEC 74-1) (D.P.II/EYS 75-1)
P 30		Bari, Brussels, RHEI, University Coll.	W. Venus	$\nu$ and $\bar{\nu}$ interactions in hydrogen filled track sensitive target, 500 kpx.	BEBC + TST + EMI	WANF (WB)	SPSC/74-116/P 30 SPSC/I 73-13

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P 31		Bari, Milan	A. Pullia	$\nu$ and $\bar{\nu}$ interactions in propane. l Mpx	GGM + EMI	WANF (WB)	SPSC/74-117/P 31 SPSC/I 73-6 SPSC/I 73-44
P 32		LPNHE Paris	M. Baubillier, J. Laberrigue(Mrs)	$K^+$ -interactions at 70 GeV/c. 600 kpx.	BEBEC + EPI	WA	SPSC/74-116/P 32 SPSC/I 73-14
P 33		Ecole Polytechnique, LPNHE Paris	P. Petiau	Search for charmed particles; study of neutral current channels with $\nu$ and $\bar{\nu}$ . 500 kpx.	BEBEC (D <sub>2</sub> ) + steel plates	WANF (WB)	SPSC/74-119/P 33 SPSC/I 73-26 SPSC/I 75-51
P 34		Bergen, Brussels, Strasbourg, Univ. College London	F.W. Bullock	High energy electronic and muonic $\nu$ and $\bar{\nu}$ interactions, 500 kpx.	GGM + EMI	WANF (WB)	SPSC/74-122/P 34 SPSC/I 73-5 SPSC/I 73-17 SPSC/I 73-20
P 35		Aachen, CERN, Oxford	K. Schuitze	$\nu$ interactions with protons and neutrons. 500 kpx.	BEBEC (D <sub>2</sub> ) + EMI	WANF (NB)	SPSC/74-123/P 35
P 36		Aachen, Bari, Brussels, CERN, University Coll. London	W. Van Doninck	Detailed study of muonless events induced by $\nu$ interactions on protons and neutrons, 500 kpx.	BEBEC (H <sub>2</sub> +N <sub>2</sub> ) + TST (D <sub>2</sub> ) + EMI	WANF (NB)	SPSC/74-126/P 36 SPSC/I 73-13
P 37		NPI Munich	P. Seyboth	Study of hadronic reactions leading to multibody final states with a particle of $P_T$ up to 3 GeV/c.	Vertex detector magnet with streamer ch.; downstream lever arm with streamer ch., trigger spectrometer	NA	SPSC/75-1/P 37 SPSC/74-86/I 65
P 38		Glasgow, RHEL, Saclay	G. Kalmus	$K^+ p$ interactions in BEBEC at 45 and 65 GeV/c. 400 kpx	BEBEC + EPI	WA	SPSC/75-2/P 38 SPSC/I 73-16

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P 39		Aachen	J. Morfin	Purely leptonic and other rare $\bar{\nu}$ interactions in propane-freon mixture. 600 kpx	GGM	NA	SPSC/75-5/P 39
P 40		CERN, IPN Orsay, Oxford	L. Dick	Spin effect and differential cross sections in elastic hadron-hadron scattering	Solenoid spectrometer; polarised proton target; position sensitive scintillation counters forward	NA Not recommended by SPSC on 2.4.75	SPSC/75-9/P 40 SPSC/74-111/I 66
P 41		Cambridge, Michigan State	J.G. Rushbrooke	$\bar{p}p$ annihilation at 150 GeV/c	Pap $\bar{e}$ Cycling Bubble Chamber; downstream particle identification	NA	SPSC/75-13/P 41
P 42		CERN, Orsay, Oxford, Rutgers, Stockholm	L. Montanet	Study of multihadron events involving identified particles	RCBC, ISIS, Cerenkov and downstream spectrometer	NA	SPSC/75-15/P 42 SPSC/75-22/P 42/Agg.1 SPSC/75-21/M 45 SPSC/75-30/M 49 SPSC/74-45/T 14 SPSC/74-95/T 14/Agg.1
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



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P 45		Firenze, Genova, Padova, LPNHE Paris, Paris VII, Rome, Trieste	D. Zanella	External $\gamma$ -ray detector for BEBC with TST	$\gamma$ -detector	WA	SPSC/75-24/P 45 SPSC/I 73-35
P 46		Ecole Polytechn.	M. Haguenaer	Study of neutrino induced rare events and of neutral current interactions	CGM	WA	SPSC/75-27/P 46

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I 1	Marburg.	R. Brandt	Nuclear chemistry (absolute monitor $\sigma$ ; 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.	E.G. Pope	$p + \text{nucleus} \rightarrow \mu^+ + \mu^- + \text{anything}$ at 400 GeV to $\sigma \sim 10^{-39}$ cm with 10 <sup>12</sup> p/p. $\Delta M/M = \pm 5\%$ for 5 GeV < M < 25 GeV.	Beam dump in 1 m target 10 m steel wall MWPC-planes with $\epsilon = \pm 0.5$ mm.	NA, behind zone 2 See P 27	SPSC/I 73-3
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 $\gamma$ -detector 2nd arm: $p + p \rightarrow p + p + x$ (+ elast.).	168" 2.5 GeV/c high resolution large acceptance spectrometer 180° bend $\Delta p/p = 10^{-4}$ .	NA possible Not recommended by SPSC.	SPSC/I 73-4
I 5	Berger.	O. Skjeggstad	$\nu$ -physics.	Gargamelle.	WA See P 34	SPSC/I 73-5
I 6	Bari.	S. Natali	$\nu$ -physics.	Gargamelle.	WA See P 31	SPSC/I 73-6
I 7	-	P. Schlein	High $p_t$ processes.	Total absorption calorimeter.	NA	SPSC/I 73-7

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I 8	Daresbury, Birmingham Glasgow, Lancaster, Manchester, Sheffield, Orsay, Ecole Poly- techn.	P.J. Duke	$\gamma$ + e-physics 20 - 100 GeV.	Omega.	WA (NA: combined $e^-$ -hadron beam planned). See P 10.	SPSC/I 73-8
I 9	CERN, Trieste Vienna.	G. Fidicaro	$d\sigma/dt$ and polariz. parameter P for $pp \rightarrow pp$ ; $\bar{p}n \rightarrow np$ $\rightarrow pn$ between 25 + 150 GeV/c and $t \leq 3$ (GeV/c).	Little detail. MWPC or drift ch. > 108 p/p.	WA (H 1) for low E NA (H 4, H 8) for high E. See P 8.	SPSC/I 73-9
I 10	Athens, Demokritos, Liverpool, Nijmegen Vienna.	R. Van de Walle	$K^+ p$ 70 GeV/c.	BEBC ( $H_2$ ) (+HEPI?)	WA See P 17	SPSC/I 73-10
I 11	Geneva, Heidelberg, Lausanne, Orsay, RHEI, Strasbourg.	G. Sauvage	Charged hyperon interactions; leptonic decays.	Hyperon beam, MWPC (backw.) + forw. spectro- meter.	WA See P 2.	SPSC/I 73-11 SPSC/74-48/M 28
I 12	Aachen, CERN, Oxford.	D. Cundy	$\nu$ -physics.	BEBC (Ne) + EMI	WA See P 23	SPSC/I 73-12
I 13	Brussels.	J. Sacton	$\nu$ -physics.	Bubble Chamber.	WA See P 30, P 36	SPSC/I 73-13
I 14	LPNHE	J. Duboc	$K^+ p$ , 70 GeV/c.	BEBC ( $H_2$ ) hybrid (charged particle) identifier, TST, ext. $\gamma$ -detector).	WA See P 32	SPSC/I 73-14

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I 15	Baresbury, Lancaster Liverpool, Oxford, Sheffield, R.M.C. Schrivenham, Coll. de France, IPN Orsay Bord., (BESY), Mappertal, CERN.	E. Gabathuler	$\mu$ -physics up to 250 GeV.	Forw. spectrometer 3 stages. Trajec. measured by $W_1$ - $W_8$ : $\epsilon = \pm 0.15$ mm. Large $\angle$ detector: 2 x 2m x 1m gap C-magnet; beam through yoke. Wire ch. inside + outside or streamer.	NA zone 2 mach. length: 2, 4 + 8 Tm. 200 evts/10 <sup>8</sup> p 2 litre polarized target planned. See P 18	SPSC/I 73-15 SPSC/I 73-15 REV. SPSC/I 73-16/R 1G
I 16	University College.	D.J. Miller	$p, \bar{p}$ -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 See P 34	SPSC/I 73-17
I 18	Glasgow, Oxford, MHEL, Saclay.	G. Kalmus	$K^+ p, 45 + 65$ GeV/c.	BEBC ( $H_2$ ) EHL.	WA See P 38	SPSC/I 73-18
I 19	Mons.	F. Grand	$K^+$ 30-75 GeV/c, $\bar{p}$ 25-100 GeV/c.	BEBC ( $H_2$ ) EHL	WA See P 14, P 22	SPSC/I 73-19
I 20	Strasbourg.	M. Paty	$\nu$ -physics.	BEBC ( $H_2$ + Ne) or GGM + EMI.	WA See P 34	SPSC/I 73-20
I 21	Birmingham, CERN, Genova, Saclay.	E. Quercigh	$K^+, \bar{p}$ at 40-60 GeV/c.	BEBC ( $H_2$ ) EHL.	WA See P 14	SPSC/I 73-21

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I 22	Aachen, Berlin, Bonn, CERN, Cracow, Heidelberg, London, Vienna, Warsaw.	D.R.O. Morrison	$K^-$ , 75-110 GeV/c.	BEBC (H <sub>2</sub> ) later with Čerenkov-beam-tagging; TST.	WA	SPSC/I 73-22
I 23	CERN, Hamburg, Karlsruhe, Oxford, Rutherford, Westfield College.	K. Winter	v-physics.	Hadron ionisation calorimeter.	NA See P 3.	SPSC/I 73-23
I 24	Orsay.	B. Dauger	$\pi^+$ , highest momentum.	BEBC (H <sub>2</sub> )	WA See P 20	SPSC/I 73-24
I 25	Orsay.	B. Dauger	$\pi^+$ , $\pi^-$ , high momentum.	BEBC (H <sub>2</sub> + Ne) TST with Geuterium.	WA See P 20	SPSC/I 73-25
I 26	Ecole Polytechnique.	P. Petiau	v-physics.	Gargamelle, BEBC (Ne).	WA See P 33	SPSC/I 73-26
I 27	Bari, Birmingham, CERN, Geneva, Oslo, Rutherford, Stockholm.	C. Damerell	Hadron physics + 150 GeV/c.	Focusing spectrometer.	WA	SPSC/I 73-27
I 28	Aachen, CERN, Oxford.	G. Myatt	v-physics.	BEBC (H <sub>2</sub> ) + EMI	WA Sec P 25	SPSC/I 73-28

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I 29	Aachen, Bari, Bergen, Brussels, U.C. London, CERN, Milano, Padova, Ecole Polyt., Orsay, Strasbourg, Torino.	A. Lagarrigue	V-physics.	Bubble chambers.	WA; review of V-programme of 12 Laboratories.	SPSC/I 73-29
I 30	CEA.	A. Rousset	V-physics.	BEBC, GGM.	WA	SPSC/I 73-30
I 31	Collège de France.	C. Chesquière	$\pi^+$ , $K^+$ , $\bar{p}$ ; 30-50 GeV/c.	BEBC ( $H_2$ ) + EHI + wire ch. in beam + $\gamma$ -detection (+TST).	WA	SPSC/I 73-31
I 32	Athens (Democritus + Univ.), Liverpool, Vienna.	H. Muirhead	$\bar{p}$ ; 50 + 100 GeV/c.	BEBC ( $H_2$ ) (+EHI).	WA See P 13.	SPSC/I 73-32
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 See P 12	SPSC/I 73-33

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I 34	Oxford.	A.M. Sgar	Search for heavy leptons.	W-target spectrometer with magnetized Fe + drift ch.	NA; beam dump expt. See P 27.	SPSC/I 73-34
I 35	Naples, Padua, Roma-Frascati, Trieste.	D. Zanello	External $\gamma$ -detector for BEBC.	MWPC + lead glass counters.	WA	SPSC/I 73-35
I 36	Milan, Pisa, Roma.	L. Foà	Comparative study of hadron fragmentation.	Cylindrical chambers around target + forw. spectrometer.	NA; See P 6	SPSC/I 73-36
I 37	Glasgow.	I.S. Hughes	$K^+$ processes at 35 and 65 GeV/c.	Omega with MWPC (and downstream $\bar{C}$ -counter with wire ch.).	WA	SPSC/I 73-37
I 38	Bari, Bonn, CERN, Darabury, 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 $\eta$ and $K^0$ inelastic reactions; elast. scatt. at large momentum transfer.	Polarized target large angle detector system + forw. $\bar{C}$ -counters.	See P 15	SPSC/I 73-39
I 40	Bonn.	K. Hockmann, K. Hartmann, W. Mehncke	$\nu$ - and $\bar{\nu}$ -interactions.	BEBC ( $H_2$ )	WA See P 25	SPSC/I 73-40
I 41	Prague.	J. Sedlak	$\bar{p}p$ interactions at 70-100 GeV/c.	BEBC	WA	SPSC/I 73-41

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I 42	Collège de France, Ecole Polytechnique Orsay, MPI + Univ. Munich, Saclay.	J. LeFrançois	Hadron, electron and photon physics.	Multi-particle spectrometer.	NA	SPSC/I 73-42
I 43	Geneva.	M. Martin C. Nef	Energy dependence of two-body reaction $K^+p \rightarrow K^{*+}p \rightarrow K^0\pi^+$	C-counter + hodoscope in beam; proton + decay analyser with PWC.	WA See P 11.	SPSC/I 73-43
I 44	Milan.	E. Fiorini	v-physics.	Gargamelle.	WA See P 31	SPSC/I 73-44
I 45	Lausanne, Neuchâtel.	E. Jeannot	Incident part. $+ p \rightarrow \Lambda^0 + \dots, K^0 + \dots, \Xi^0 + \dots, \Xi^0 + \dots$ ; fragmentation of proton-target; coherent reactions on He.	Streamer chamber "Dardanelle".		SPSC/I 73-45
I 46	Geneva.	O. Guisan	Form factor of $\pi$ 's and $K$ 's.	$\chi$ -counter; forward analyzing system with wire ch. (+ shower detector).	NA	SPSC/I 73-46
I 47	CERN, MPI Munich.	P. Weilhammer	Few-body reactions.	CERN-Munich spectrometer.	WA See P 7	SPSC/I 73-47
I 48	Bristol, Southampton.	S.G.P. Frank	Form factor of $\pi$ 's.	Forward magnetic spectrometer from P 6.	WA	SPSC/I 73-48 SPSC/74-85/I 48/866.1
I 49	Oxford.	N.E. Booth	v-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 Morpargo magnets.	WA See P 4.	SPSC/I 73-50



No.	Lab.	Contact	Experiment	Apparatus	Remarks	References
I 51	Ecole Polytechnique.	V. Brisson	v-physics.	BEBC ( $H_2$ ; $D_2$ )	WA See P 33	SPSC/I 73-51
I 52	Gran, 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	v-physics.	GGM, BEBC.	WA	SPSC/I 73-53
I 54	CERN, FN.	W. Bousch	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 $\Omega$ -beam.	WA; withdrawn 25.6.1974.	SPSC/I 73-55
I 56	Osaka, Padova, Bologna, Praha, Pisa, Saclay, Torino.	A. Tenner	v-physics.	BEBC ( $D_2$ )	WA See P 16	SPSC/I 73-56 SPSC/74-9/I 56/Add.1
I 57	Scand. UC-Collab. (Bellefiki, Stockholm).	S. Nilsson	$\bar{p}p$ -reactions 30-70 GeV/c.	BEBC	WA	SPSC/I 73-57
I 58	Frascati, Naples.	G. Barbiellini	v-lepton scattering.	Scintill. counter + spark chambers.	WA	SPSC/74-1/I 58
I 59	Aachen.	J. von Krogh/ K. Schultze	v-physics.	GGM	WA	SPSC/74-2/I 59

No.	Labs.	Contact	Experiment	Apparatus	Remarks	References
I 60	DESY	H. Meyer	V-e scattering.	Streamer chamber with CH <sub>2</sub> plates and scintillation counters.	NA	SPSC/74-5/I 60
I 61	Birmingham.	J.D. Dowell	Rare meson systems from K <sup>+</sup> p collisions at 16 and 32 GeV/c.	Omega (with lever arm for 32 GeV/c).	WA See P 21	SPSC/74-50/I 61
I 62	Lundbyrad, Uppsala.	T. Ekelöf	Hadronic interactions at very small momentum transfers.	Ion chamber spectrometer (recoil) + magnetic spectrometer.	WA See p 26	SPSC/74-56/I 62 SPSC/74-55/M 61
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.	NA Not recommended by SPSC	SPSC/74-68/I 64
I 65	MPI Munich.	P. Seyboth	Multi-particle hadron physics.	Streamer chamber and vertex magnet.	NA See p 37	SPSC/74-66/I 65
I 66	CERN, IPN Orsay, Oxford	L. Dick	Measurement of spin effect (P <sub>0</sub> and R) and differential cross-sections in hadron-hadron elastic scatterings	Polarized target; solenoid spectrometer; position sensitive scintillation counters f. forward detector	NA	SPSC/74-111/I 66
I 67	Brussels, MIT, Padova, Strasbourg	A. Friedman	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