

Table 1: Run groups A and B (CLAS12), 20 experiments

Proposal	Physics	Contact	Rating	Days	Group	New equipment	Energy	Run Group	Target	Complete
E12-06-108	Hard exclusive electro-production of π^0, η	Stoler	B	80	139	RICH (1 sector) Forward tagger	11	A F. Sabatié	liquid H ₂	50%
E12-06-108A	Exclusive $N^* \rightarrow KY$ Studies with CLAS12	Carman		(60)						
E12-06-108B	Transition Form Factor of the η' Meson with CLAS12	Kunkel		(80)						
E12-06-112	Proton's quark dynamics in SIDIS pion production	Avakian	A	60						
E12-06-112A	Semi-inclusive Λ production in target fragmentation region	Mirazita		(60)						
E12-06-112B	Collinear nucleon structure at twist-3	Pisano		(60)						
E12-06-119(a)	Deeply Virtual Compton Scattering	Sabatie	A	80						
E12-09-003	Excitation of nucleon resonances at high Q^2	Gothe	B+	40						
E12-11-005	Hadron spectroscopy with forward tagger	Battaglieri	A-	119						
E12-11-005A	Photoproduction of the very strangest baryon	Guo		(120)						
E12-12-001	Timelike Compton Scatt. & J/ψ production in $e+e-$	Nadel-Turonski	A-	120						
E12-12-001A	Near Threshold J/ψ photoproduction and study of LHCb pentquarks	Stepanyan		(120)						
E12-12-007	Exclusive ϕ meson electroproduction with CLAS12	Stoler, Weiss	B+	60						
E12-07-104	Neutron magnetic form factor	Gilfoyle	A-	30	90	Neutron detector RICH (1 sector) Forward tagger	11	B K. Hafidi	liquid D ₂ target	43%
E12-09-007(a)	Study of partonic distributions in SIDIS kaon production	Hafidi	A-	30						
E12-09-008	Boer-Mulders asymmetry in K SIDIS w/ H and D targets	Contalbrigo	A-	56						
E12-09-008A	Hadron production in target fragmentation region	Mirazita		(60)						
E12-09-008B	Collinear nucleon structure at twist-3	Pisano		(60)						
E12-11-003	DVCS on neutron target	Niccolai	A	90						
E12-11-003A	In medium structure functions, SRC, and the EMC effect	Hen		(90)						
Total beam time for PAC approved (all) experiments / Run Groups				765 (1355)	229					

Table 2: Run groups C, D, E, F, G and H (CLAS12), 13 experiments

Proposal	Physics	Contact	Rating	Days	Group	Equipment	Energy (GeV)	Group	Target	Complete
E12-06-109	Longitudinal Spin Structure of the Nucleon	Kuhn	A	80	485-120	Longitudinally Polarized target RICH (1 sector) Forward tagger	11	C S. Kuhn	NH ₃ ND ₃	
E12-06-109A	DVCS on the neutron with polarized deuterium target	Niccolai		(60)						
E12-06-119(b)	DVCS on longitudinally polarized proton target	Sabatie	A	120						
E12-07-107	Spin-Orbit Correl. with Longitudinally polarized target	Avakian	A-	103						
E12-09-007(b)	Study of partonic distributions using SIDIS K production	Hafidi	A-	80						
E12-09-009	Spin-Orbit correlations in K production w/ pol. targets	Avakian	B+	103						
E12-06-106	Color transparency in exclusive vector meson production	Hafidi(El Fassi)	B+	60 30	30		11	D		
E12-06-106A	Nuclear TMDs in CLAS12	Dupre		(30)						
E12-06-117	Quark propagation and hadron formation	Brooks	A-	60	60		11	E	Nuclear	
E12-06-113	Free Neutron structure at large x	Bueltman	A	42	42	Radial TPC	11	F	Gas D ₂	100%
E12-14-001	EMC effect in spin structure functions	Brooks	B+	55	55	Pol. target, Li	11	G	6LiH/7LiD	
C12-11-111	SIDIS on transverse polarized target	Contalbrigo	A	110	110	Transversely polarized target	11	H	HD	
C12-12-009	Transversity w/ di-hadron on transverse target	Avakian	A	110						
C12-12-010	DVCS with transverse polarized target in CLAS12	Elouadrhiri	A	110						
Total beam time for PAC approved (all) experiments / Run Groups (+ C1)				1003 (1093)	307 (417)					

Table 3: Run groups I and J (non-CLAS12), 2 experiments

Proposal	Physics	Contact	Rating	Days	Group	Equipment	Energy (GeV)	Group	Target	Complete
E12-11-006	Heavy Photon Search at Jefferson Lab (HPS)	Jaros	A	180	180	Setup in alcove	2.2, 6.6	I	Nuclear	56.7%
E12-11-106	High Precision Measurement of the Proton Charge Radius	Gasparian	A	15	15	Primex	1.1, 2.2	J	H2 gas	100%
Total beam time for PAC approved non-CLAS12 experiments				195	305					

Table 4: Run groups K, L, M, N, and P (CLAS12), and O (PRad), 12 experiments

Proposal	Physics	Contact	Rating	Days app.	Group	Equipment	Energy (GeV)	Group	Target	Completed
E12-16-010	A search for Hybrid Baryons in Hall B with CLAS12	D'Angelo	A-	100	100	Forward Tagger	6.6, 8.8	K Confinement & Strong QCD	LH2	12%
E12-16-010A	Nucleon Resonances in exc. KY electroproduction	Carman	A-	(100)						
E12-16-010B	DVCS with CLAS12 at 6.6 and 8.8 GeV	Elouadhiri	A-	(100)						
E12-17-012	Partonic Structure of Light Nuclei	Meziani	A-	55	55	ALERT detector	11	L	High pressure gas H, D, 4He	
E12-17-012A	Tagged EMC measurements on Light Nuclei	Dupre								
E12-17-012B	Spectator-Tagged DVCS on Light Nuclei	Armstrong								
E12-17-012C	Other Physics Opportunities with ALERT	Hafidi								
E12-17-006	Electrons for Neutrinos: Addressing Critical Neutrino-Nucleus Issues	O. Hen	A	45	45	No-FT	1.1, 2.2, 4.4, 6.6	M	Nuclear	
E12-18-003	Exclusive Studies of Short Range Correlations in Nuclei using CLAS12	O. Hen		(45)						
C12-20-002	A program of spin-dependent electron scattering using a polarized 3He target in CLAS12	Milner	A-	30	30	Tr. 3He gas target	11	N	T_Pol-3He	
C12-20-004	PRad-II: A New Upgraded High Precision Measurement of the Proton Charge Radius	Gasparian	A	40	40	PRAD upgrade	0.7, 1.4, 2.1	O	Gas-jet H/D	
E12-20-005	Precision measurements of A=3 nuclei in Hall B	Szumila-Vance	A-	60	60	Tritium target	2.2, 6.6	P	3H/3He	
Total beam time for PAC approved (all) experiments / Run Groups (+ C1)				290 (535)	260 (290)					

Beam time for approved & C1 approved (all) CLAS12 experiments from Table 1, 2, 3, and 4 / Run Groups (+ C1)	2058(2983)	796 (936)
Beam time for all Hall B experiments, approved & C1 approved (all) CLAS12 experiments / Run Groups (+ C1)	2293 (3218)	991 (1171)

Total completed 255 PAC days

Table 5: C2 approved experiment, CLAS12 and PRad

PR12-20-009	Beam charge asymmetries for Deeply Virtual Compton Scattering on the proton at CLAS12	Voutier	C2	100	100	Positron beam	11 e+/-		LH2
PR12-21-003	A Direct Detection Search for Hidden Sector New Particles in the 3-60 MeV Mass Range	Gasparian	C2	60	60		2.2, 3.3		Ta
PR12-21-004	Semi-Inclusive Deep Inelastic Scattering Measurement of A=3 Nuclei with CLAS12 in Hall B	Weinstein	C2	58	58		11		D/3H/3He