

	(Co-)Spokespersons	Affiliation	Title of the experiment	Approval status (PAC recommendation)	Beamline	Status	From 2018
							Leading Referees
E03	K.Tanida	JAEA	Measurement of X rays from $\Sigma$ Atom	Stage 2	K1.8	In preparation	Weise, Aoi, Zajc, Kitano
P04	J.C.Peng; S.Sawada	U of Illinois at Urbana-Champaign; KEK	Measurement of High-Mass Dimuon Production at the 50-GeV Proton Synchrotron	Deferred	Primary		
E05	T.Nagae	Kyoto U	Spectroscopic Study of $\Sigma$ -Hypernucleus, $^{12}_{\Sigma}\text{Be}$ , via the $^{12}\text{C}(K^-, K^+)$ Reaction	Stage 2 New experiment E70 based on the S-2S spectrometer	K1.8	Finished	
E06	J.Imazato	KEK	Measurement of T-violating Transverse Muon Polarization in $K^+ \rightarrow \pi^0 \mu^+ \nu$ Decays	E36 as the first step	K1.1BR		
E07	K.Imai, K.Nakazawa, H.Tamura	JAEA, Gifu U, Tohoku U	Systematic Study of Double Strangeness System with an Emulsion-counter Hybrid Method	Stage 2	K1.8	Finished Data analysis	Weise, Pochodzalla, Hanagaki
E08	A.Krutenkova	ITEP	Pion double charge exchange on oxygen at J-PARC	Stage 1	K1.8		Weise, Aoi, Zajc
E10	A.Sakaguchi, T.Fukuda	Osaka U, Osaka EC U	Production of Neutron-Rich Lambda-Hypernuclei with the Double Charge-Exchange Reaction (Revised from Initial P10)	Stage 2	K1.8	U run finished, Be target run with S-2S	Weise, Tamura, Zajc
E11	T. Nakaya, M. Wascho	KEK	Tokai-to-Kamioka (T2K) Long Baseline Neutrino Oscillation Experimental Proposal	Stage 2	neutrino	Data taking	Harris, Kettell, Yoshida, Kitano
E13	H.Tamura	Tohoku U	Gamma-ray spectroscopy of light hypernuclei	Stage 2	K1.8	Finished	
E14	T.Yamanaka	Osaka U	Proposal for $K_L \rightarrow \pi^0 \nu \bar{\nu}$ Experiment at J-PARC	Stage 2	KL	Data taking	Kuze, Kettell, Kitano, Yoshida, Hanagaki
E15	M.Iwasaki, T.Nagae	RIKEN, Kyoto U	A Search for deeply-bound kaonic nuclear states by in-flight $^3\text{He}(K^-, n)$ reaction	Stage 2	K1.8BR	Data taking	To be renewed
E16	S.Yokkaichi	RIKEN	Measurements of spectral change of vector mesons in nuclei (previously "Electron pair spectrometer at the J-PARC 50-GeV PS to explore the chiral symmetry in QCD")	Stage 2 for Run 0	High p		Weise, Pochodzalla, Ohnishi, Eidelman
E17	R.Hayano, H.Outa	U Tokyo, RIKEN	Precision spectroscopy of Kaonic $^3\text{He}$ $3d \rightarrow 2p$ X-rays	Registered as E62 with an updated proposal	K1.8BR		
E18	H.Bhang, H.Outa, H.Park	SNU, RIKEN, KRIS	Coincidence Measurement of the Weak Decay of $^{12}\text{C}$ and the three-body weak interaction process	Stage 2	K1.8		Weise, Tamura, Zajc
E19	M.Naruki	KEK	High-resolution Search for $\Theta^+$ Pentaquark in $\pi^+ p \rightarrow K^+ X$ Reactions	Stage 2	K1.8	Finished	
E21	Y.Kuno	Osaka U	An Experimental Search for $\mu^- \rightarrow e$ Conversion at a Sensitivity of $10^{-16}$ with a Slow-Extracted Bunched Beam	Phase-I Stage 2 Engineering design and operation plan to be presented	COMET		Harris, Kitano, Browder, Yoshida, Eidelman
E22	S.Ajamura, A.Sakaguchi	Osaka U	Exclusive Study on the Lambda-N Weak Interaction in A=4 Lambda-Hypernuclei	Stage 1	K1.8		Weise, Tamura, Zajc
T25	S.Mihara	KEK	Extinction Measurement of J-PARC Proton Beam at K1.8BR	Test Experiment (coordinated by JPNP)	K1.8BR	Finished	
E26	K.Ozawa	KEK	Search for $\omega$ -meson nuclear bound states in the $\pi^+ Z \rightarrow n^{(*)} (Z-1)$ reaction, and for $\omega$ mass modification in the in-medium $\omega \rightarrow \pi\pi^0$ decay	Stage 1	K1.8		Tamura, Ohnishi, Eidelman
E27	T.Nagae	Kyoto U	Search for a nuclear Kbar bound state $K^0_{pp}$ in the $d(\pi^+, K^-)$ reaction	Stage 2	K1.8	Finished	Weise, Aoi, Kuze, Ohnishi
E29	H.Ohnishi	RIKEN	Search for $\phi$ -meson nuclear bound states in the $p\bar{p} + ^2Z \rightarrow \phi + ^{(A-1)}_Z(Z-1)$ reaction	Stage 1	K1.1		Tamura, Zajc, Ohnishi
E31	H.Noumi	Osaka U	Spectroscopic study of hyperon resonances below KN threshold via the $(K^- n)$ reaction on Deuteron	Stage 2 PAC supports requests of a second run of 20+1.5 days in early 2018.	K1.8BR	Finished Data analysis	Weise, Tamura, Pochodzalla, Ohnishi
T32	A.Rubbia	ETH, Zurich	Towards a Long Baseline Neutrino and Neutron Decay Experiment with a next-generation 100 kton Liquid Argon TPC detector at Okinoshima and an intensity upgraded J-PARC Neutrino beam	Test Experiment	K1.1BR	Finished	
P33	H.M.Shimizu	Nagoya U	Measurement of Neutron Electric Dipole Moment	Deferred	Linac		To be discussed later
E34	T. Mibe	KEK, RIKEN	An Experimental Proposal on a New Measurement of the Muon Anomalous Magnetic Moment g-2 and Electric Dipole Moment at J-PARC	Stage 1 PAC needs additional time to evaluate the PAC responses and new TDR.	MLF		Harris, Kettell, Yoshida, Hanagaki, Kitano
E36	M.Kohl, S.Shimizu	Hampton U, Osaka U	Measurement of $\Gamma(K^+ \rightarrow e^+ \nu) / \Gamma(K^+ \rightarrow \mu^+ \nu)$ and Search for heavy sterile neutrinos using the TREK detector system	Stage 2 anticipates completion of the data analysis and presentation of the dark-photon search.	K1.1BR	Finished Data analysis	Browder, Kettell, Yoshida, Eidelman
E40	K.Miwa	Tohoku U	Measurement of the cross sections of $\Sigma p$ scatterings	Stage 2 Minimal commissioning and initial DAQ to be done in June	K1.8	In preparation	Kettell, Kuze, Ohnishi, Zajc
P41	M.Aoki	Osaka U	An Experimental Search for $\mu^- \rightarrow e$ Conversion in Nuclear Field at a Sensitivity of $10^{-14}$ with Pulsed Proton Beam from RCS	Deferred	MLF	Reviewed in MLF/IMSS	
E42	J.K.Ahn	Pusan National U	Search for H-Dibaryon with a Large Acceptance Hyperon Spectrometer	Stage 2 Commissioning and physics run plan to be submitted	K1.8		Kuze, Ohnishi, Hanagaki
E45	K.H.Hicks, H.Sako	Ohio U, JAEA	3-Body Hadronic Reactions for New Aspects of Baryon Spectroscopy	Stage 1 Describe the achievable data quality for each channel and clarify the physics output for stage 2	K1.8		Tamura, Kuze, Hatsuda
T46	K.Ozawa	KEK	E01T2013 beam test program	Test Experiment	K1.1BR	Abandoned	
T49	T.Maryama	KEK	Test for 250L Liquid Argon TPC	Test Experiment	K1.1BR	Withdrawn	
E50	H.Noumi	Osaka U	Charmed Baryon Spectroscopy via the $(\pi^+, D^-)$ reaction	Stage 1 The FIC, IPNS, and E50 should investigate the beam-line feasibility	High p		Yoshida, Browder, Kettell, Ohnishi, Eidelman
T51	S.Mihara	KEK	Research Proposal for COMET(E21) Calorimeter Prototype Beam Test	Test Experiment	K1.1BR	had to be stopped	
T52	Y.Sugimoto	KEK	Test of fine pixel CCDs for ILC vertex detector	Test Experiment	K1.1BR	not performed yet	
T53	D.Kawama	RIKEN	Test of GEM Tracker, Hadron Blind Detector and Lead-glass EMC for the J-PARC E16 experiment	Test Experiment	K1.1BR	not performed yet	
T54	K.Miwa	Tohoku U	Test experiment for a performance evaluation of a scattered proton detector system for the $\Sigma p$ scattering experiment E40	Test Experiment	K1.1BR	not performed yet	
T55	A.Toyoda	KEK	Second Test of Aerogel Cherenkov counter for the J-PARC E36 experiment	Test Experiment	K1.1BR	had to be stopped	
E56	T.Maryama	KEK	A Search for Sterile Neutrino at J-PARC Materials and Life Science Experimental Facility	Stage 1 Review of the answers to the questions is necessary for Stage 2	MLF		Kuze, Yoshida, Kettell, Eidelman, Kitano
E57	J.Zmeskal	Stefan Meyer Institute for Subatomic Physics	Measurement of the strong interaction induced shift and width of the 1s state of kaonic deuterium at J-PARC	Stage 1 Beam time for the pilot run to be allocated	K1.8BR	In preparation	Pochodzalla, Aoi, Ohnishi, Zajc
P58	M.Yokoyama	U. Tokyo	A Long Baseline Neutrino Oscillation Experiment Using J-PARC Neutrino Beam and Hyper-Kamiokande	Deferred	neutrino		Harris, Yoshida, Hanagaki
T59	A.Minamino	Kyoto U	A test experiment to measure neutrino cross sections using a 3D grid-like neutrino detector with a water target at the near detector hall of J-PARC neutrino beam-line	To be arranged by IPNS and KEK-T2K	neutrino monitor bld	Finished	Discussion in the sub-committee
T60	T. Fukuda	Toho U	Proposal of an emulsion-based test experiment at J-PARC	Arranged by IPNS and KEK-T2K	neutrino monitor bld	Finished	Discussion in the sub-committee
E61	M.Wilking	Stony Brook U	nuPRISM	Stage 1 Develop a plan for phase-1 infrastructure construction	neutrino		Harris, Kettell, Yoshida, Kitano
E62	R. Hayano, S. Okada, H. Outa	U. Tokyo, RIKEN	Precision Spectroscopy of kaonic atom X-rays with TES	Stage 2	K1.8BR	In preparation	Ohnishi, Aoi, Hanagaki, Kuze
E63	H. Tamura	Tohoku U	Gamma-ray spectroscopy of light hypernuclei II	Stage 2	K1.1	BL not ready yet. Exp. in	Weise, Pochodzalla, Ohnishi, Aoi
T64	Y. Koshio	Okayama U	Measurement of the gamma-ray and neutron background from the T2k neutrino/anti-neutrino at J-PARC B2 Hall	Arranged by IPNS and KEK-T2K	neutrino		Discussion in the sub-committee
E65	T. Nakaya	Kyoto U	Proposal for T2K Extended Run	Stage 1	neutrino		Harris, Kettell, Yoshida, Kitano
T66	T. Fukuda	Nagoya U	Proposal of an emulsion-based test experiment at J-PARC	Test Experiment	neutrino		Discussion by directors
P67	I. Meigo	JAEA	Measurement of displacement cross section of proton in energy region between 3 and 30 GeV for high-intensity proton accelerator facility	Carry out the experiment within the framework of facility development	MR		Discussion in progress
T68	T. Fukuda	Nagoya U	Extension of T60/T66 Experiment: Proposal for the Run from 2017 Autumn	Test Experiment	neutrino		Discussion in the sub-committee
E69	A.Minamino	Yokohama National U	Study of neutrino-nucleus interaction at around 1 GeV using cubic lattice neutrino detector, WAGASHI, muon range detectors and magnetized spectrometer, Baby MND, at J-PARC neutrino monitor hall	MND with T2K before Stage 1 TDR to be submitted for stage 2 approval	neutrino		Harris, Kettell, Yoshida, Kitano
E70	T. Nagae	Kyoto U	Proposal for the next E05 run with the S-2S spectrometer	Stage 1 Encourage to submit a TDR	K1.8		Weise, Tamura, Zajc
E71	T. Fukuda	Nagoya U	Proposal for precise measurement of neutrino-proton cross-section in NINJA physics run	MND with T2K before proceeding to stage 1	neutrino		Harris, Kettell, Yoshida, Kitano
E72	K. Tanida	JAEA	Search for a Narrow $\Lambda^*$ Resonance using the $p(K^-, \Lambda)^0$ Reaction with the hypTPC Detector	Stage 1 Encourage to submit a TDR and to analyze Data data further	K1.8BR		Yoshida, Browder, Kettell, Ohnishi, Eidelman

Stage 1/2 granted

PAC25 presentation PAC's judgement

Approved test exp.

finished or not considered to be done in near future