

Third International Workshop on the Extension Project for the J-PARC Hadron Experimental Facility (3rd J-PARC HEF-ex WS)

Tuesday, 14 March 2023 - Thursday, 16 March 2023

J-PARC
Programme

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Tuesday 14 March 2023

plenary: 1 - 2F Conference room (10:30-12:00)

-Conveners: Fuminori SAKUMA

time	[id] title	presenter
10:30	[1] opening	KOBAYASHI, Takashi MIWA, Koji
11:00	[2] Present and future of the Hadron Experimental Facility	TAKAHASHI, Hitoshi
11:30	[3] Main Ring upgrade and Slow Extraction operation	MUTO, Ryotaro

Parallel (flavor): 1 - 115 (13:30-15:35)

time	[id] title	presenter
13:30	[76] Search for light neutral bosons in K+ decays	DONGWI H DONGWI
13:55	[78] Development of charged particle detector using 0.2-mm thick scintillator film for KOTO	ONO, Keita
14:20	[80] Simulation of angular resolution of a new electromagnetic sampling calorimeter for the KOTO2 experiment	JUNLEE KIM
14:45	[79] Development of novel fast scintillators based on organic polymers	MASANORI KOSHIMIZU
15:10	[81] Pre-shower detector sensitive to incident photon direction	MIYABAYASHI, Kenkichi

Parallel (strangeness): 1 - 2F Conference room (13:30-17:05)

-Conveners: Hirokazu TAMURA; Koji MIWA

time	[id] title	presenter
13:30	[17] Meson-baryon and baryon-baryon interactions from Lorentz invariant ChEFT	REN, Xiu-Lei
14:00	[18] Results of Σp scattering experiment (J-PARC E40)	NANAMURA, Takuya
14:25	[19] N Λ -N Σ potentials from physical point lattice QCD	DOI, Takahiro
14:50	[22] Femtoscopy and scattering of $\Lambda\alpha$ with Λ potential from chiral EFT	OHNISHI, Akira
15:15	Break	
15:35	[21] Femtoscopic study for two-body and three-body hadronic interactions	VALENTINA MANTOVANI, Sarti
16:05	[20] Hyperon-nucleon interaction at N ² LO in chiral EFT	MEISSNER, Ulf-G.
16:30	[23] Experimental Aspects of the Hyperon Nucleon Interaction with the CLAS detector	ZACHARIOU, Nickolas

Parallel (hadron): 1 - 116 (13:30-17:25)

time	[id] title	presenter
13:30	[24] Studies on hyperon dynamics at Belle and J-PARC	TANIDA, Kiyoshi
13:55	[25] Observation of an isoscalar 1 ⁺⁺ state, eta ₁ (1855)	LIU, Beiji
14:20	[69] Near-threshold hadron scattering using effective field theory	SONE, Katsuyoshi
14:45	[68] Structure of X(3872) with hadronic potentials coupled to quarks	TERASHIMA, Ibuki

15:10	Break	
15:20	[26] Structure of Pc	YAMAGUCHI, Yasuhiro
15:45	[29] Studies on baryon resonances from lattice QCD	MURAKAMI, Kotaro
16:10	[30] Study of a Doubly Charm Tetraquark on the Lattice	PRELOVSEK, Sasa
16:35	[75] Doubly-charmed tetraquark $T_{cc}+\bar{\chi}$ in a constituent quark model	SEGOVIA, Jorge
17:00	[31] (TBC) Recent results on hadron spectroscopy at LHCb	TBA

plenary: 2 - 2F Conference room (17:30-19:00)

-Conveners: Satoshi N. NAKAMURA

time [id] title

presenter

time	[id] title	presenter
17:30	[7] Quark-Meson-Coupling model for hypernuclei and neutron stars	THOMAS, Anthony William
18:00	[8] Theoretical progress and future direction in hypernuclear physics	HIYAMA, Emiko
18:30	[9] Strangeness nuclear physics programs at J-PARC	MIWA, Koji

Wednesday 15 March 2023**plenary: 3 - 2F Conference room (10:30-12:30)**

-Conveners: Yoshinori FUKAO

time	[id] title	presenter
10:30	[10] (TBC) Kaon physics	YAMAMOTO, Kei
11:00	[11] KOTO and KOTO II	SHIOMI, Koji
11:30	[12] Determination of coupling patterns by parallel searches for $\mu^- \rightarrow e^+$ and $\mu^- \rightarrow e^-$ in muonic atoms	SATO, Joe
12:00	[13] COMET Phase-Alpha	OISHI, Kou

Parallel (flavor): 2 - 115 (14:00-17:15)

time	[id] title	presenter
14:00	[82] Development of the COMET Straw Tube Tracker	HIGASHIDE, Masaaki
14:25	[83] Wide bandgap semiconductors Detector as Novel Proton Monitors for the COMET experiment.	CHETRY, Pankaj
14:50	[84] The Trigger Development for the COMET Cylindrical Detector System	MASAKI MIYATAKI
15:15	[85] Development of the COMET DAQ System	IGARASHI, Youichi
15:40	Break	
16:00	[86] Development of novel detectors for KOTO2	SANGHOON LIM
16:25	[87] CALICE High-granularity Calorimeters	OOTANI, Wataru
16:50	[77] Development of MIP Timing Detector for the CMS Phase-2 Upgrade	MOON, CHANG-SEONG

Parallel (strangeness): 2 - 2F Conference room (14:00-17:20)

-Conveners: Toshiyuki Takahashi; Emiko Hiyama

time	[id] title	presenter
14:00	[32] Ab initio calculation of hypernuclei with chiral EFT interaction	LE, Hoai
14:30	[33] Future prospects of hypernuclear high-resolution & high-precision spectroscopies with electron beams	NAGAO, Sho
14:55	[34] Ξ atomic X-ray and hypernuclear γ -ray spectroscopy	UKAI, Mifuyu
15:20	Break	
15:40	[35] Theoretical study of hypernuclei for HIHR era	UMEYA, Atsushi
16:05	[36] TBA: HIHR	NAKAMURA, Satoshi N.
16:30	[37] Effects of many-body interactions in hypernuclei with Korea-IBS-Daegu-SKKU functionals	CHOI, Soonchul

Parallel (hadron): 2 - 116 (14:00-17:05)

time	[id] title	presenter
14:00	[39] Modifications of diquark masses at finite density	SUENAGA, Daiki

14:25	[40] (TBC) Chiral Diquark Model	HARADA, Masayasu
14:50	[41] (TBC) Diquark in Lattice QCD	IISHII, Noriyoshi
15:15	Break	
15:25	[42] (TBC) Kaon Induced Ξ^* production	SHIM, Sang-In
15:50	[43] $K\bar{b}N$ scattering for Ξ production	OH, Yongseok
16:15	[44] Cascade baryon spectroscopy at J-PARC	NARUKI, Megumi
16:40	[45] (TBC) Baryon spectroscopy and quark dynamics	SANTOPINTO, Elena

plenary: 4 - 2F Conference room (17:30-19:00)

-Conveners: Hiroyuki NOUMI

time	[id] title	presenter
17:30	[14] (TBC) Baryon Spectroscopy	GUO, Feng-Kun
18:00	[16] Spectroscopy of charmed and multi-strange baryons using hadronic beam at J-PARC	SHIROTORI, Kotaro
18:30	[4] Neutron star with quark-hadron crossover equation of state	KOJO, Toru

Thursday 16 March 2023

Parallel (hadron): 3 - 116 (08:30-12:25)

time	[id] title	presenter
08:30	[50] Hadron Structure Studies with CLAS12	ACHENBACH, Patric
08:55	[51] Partial wave analysis for new hadron spectroscopy	DOERING, Michael
09:20	[52] Threshold vector meson photoproduction: from omega to upsilon	STRAKOVSKY, Igor
09:45	[53] Experimental studies on ϕ N interaction and hidden-strangeness pentaquark states using photon and hadronic beams	RYU, Sun-Young
10:10	Break	
10:20	[74] Effects of Mass Variations in KKKbar Kaonic Systems	FILIKHIN, Igor
10:45	[55] Nucleon gravitational form factors in holographic QCD	HATTA, Yoshitaka
11:10	[56] Mechanical structure of hadrons	KIM, Hyun-Chul
11:35	[57] Exclusive DY at J-PARC	TOMIDA, Natsuki
12:00	[54] Diquark Dynamics in Hadron Structure and Reactions	LEBED, Richard

Parallel (strangeness): 3 - 2F Conference room (10:30-12:00)

-Conveners: Mifuyu UKAI

time	[id] title	presenter
10:30	[46] Quark-Meson_Coupling model and high density hadronic matter	STONE, Jirina
10:50	[47] Verification of Repulsive Lambda Potential at High Densities by using Hypernuclear Data	JINNO, Asanosuke
11:10	[48] Current status and future of the hypernuclear study in the HypHI project	EKAWA, Hiroyuki
11:35	[49] Study of hypernuclei with a machine learning technique for nuclear emulsion	NAKAGAWA, Manami

Parallel (strangeness): 4 - 2F Conference room (13:20-17:15)

-Conveners: Koji MIWA; Fuminori SAKUMA

time	[id] title	presenter
13:20	[58] Theoretical progress and future direction in kaonic nuclei	HYODO, Tetsuo
13:50	[59] Kaonic nuclei at J-PARC	YAMAGA, Takumi
14:20	[60] New studies of the K^- -pp system	SHEVCHENKO, Nina
14:40	[61] SIDDHARTA-2 experiment status at DAFNE and future plans	OANA CURCEANU, Catalina
15:10	Break	
15:30	[64] Search for H-dibaryon and future program using HypTPC	KIM, Shin Hyung
15:55	[63] Future highlights from the PANDA experiment	SCHONNING, Karin
16:25	[62] In-beam performances of a CdZnTe detector toward X and Gamma spectroscopy of kaonic atoms at DAFNE and JPARC	SCORDO, Alessandro

16:45 [65] Physics programs using S-2S spectrometer

GOGAMI, Toshiyuki

Parallel (hadron): 4 - 116 (13:30-17:00)

time	[id] title	presenter
13:30	[70] (TBC) intrinsic charm in Baryon	MORINO, Yuhei
13:55	[71] Phi meson properties in nuclear matter with zero and non-zero momentum	GUBLER, Philipp
14:20	[72] Measurements of spectral change of vector mesons in nuclear matter at finite density	YOKKAICHI, Satoshi
14:45	[73] Experimental search for eta-prime mesic nuclei	ITAHASHI, Kenta
15:10	Break	
15:20	[28] S-wave fully-charmed tetraquark resonant states	WANG, Guangjuan
15:45	[27] Unusual threshold behaviors in hadron reactions	NAKAMURA, Satoshi X.
16:10	[66] Analysis of Xi resonances with chiral unitary approach based on experimental data	NISHIBUCHI, Takuma
16:35	[67] Compositeness of exotic hadron with decay and coupled-channel effects	KINUGAWA, Tomona

plenary: 5 - 2F Conference room (17:30-19:00)

-Conveners: Fuminori SAKUMA

time	[id] title	presenter
17:30	[15] Nature of the lowest-lying odd parity bottomed and charmed baryon resonances	NIEVES, Juan
18:00	[5] J-PARC HI project	OZAWA, Kyoichiro
18:30	[6] Closing	NOUMI, Hiroyuki