



as of September 7

Hyp-X Scientific Program Sep. 14 - 18, 2009

Plenary Sessions

Sep. 14 (Mon)

Opening Session (Chair: K. Imai)

9:00 - 9:10	K. Imai (Kyoto)	Opening Address
9:10 - 9:15	K. Nishikawa (KEK)	Welcome Address
9:15 - 9:20	S. Nagamiya (J-PARC)	Welcome Address

Plenary 1 Spectroscopy of Hypernuclei (Chair: B.F. Gibson)

9:20 - 9:50	H. Tamura (Tohoku)	Gamma-ray spectroscopy of hypernuclei
9:50 - 10:20	D.J. Millener (BNL)	Shell-model structure of light hypernuclei
10:20 - 10:40	H.-J. Schulze (Catania)	Hypernuclei with a microscopic Λ -nucleon force
10:40 - 11:10	Coffee Break	

Plenary 2 Strange Mesons in Nuclei (Chair: T. Bressani)

11:10 - 11:40	M. Cargnelli (SMI)	Kaonic Atoms studies at DAΦNE in SIDDHARTA experiment
11:40 - 12:10	S. Piano (Trieste)	Recent results on K ⁻ absorption by few nucleons and the Bound Kaonic Nuclear State Puzzle
12:10 - 12:40	M. Maggiora (Torino)	DISTO data on K^-pp
12:40 - 14:00	Lunch	

Plenary 3 Strange Mesons in Nuclei (Chair: M. Oka)

14:00 - 14:30	W. Weise (Munich)	K ⁻ bar-Nucleus Interaction
14:30 - 14:50	D. Jido (YITP)	The nature of $\Lambda(1405)$ in chiral dynamics
14:50 - 15:10	Y. Akaishi (RIKEN)	Single-pole nature of $\Lambda(1405)$ and structure of K^-pp
15:10 - 15:30	Coffee Break	

Plenary 4 New Facilities and Strangeness in Heavy Ion Reaction (Chair: J. Pochodzalla)

15:30 - 15:50	K. Tanida (Seoul)	Experimental Program at J-PARC
15:50 - 16:10	K.H. Tanaka (KEK)	Construction and Status of Hadron Experimental Hall
16:10 - 16:30	T. Takahashi (KEK)	Experimental apparatus at Hadron Experimental Hall
16:30 - 17:00	P. Senger (GSI)	Strangeness production in Heavy-Ion collisions
17:00 - 17:20	T.R. Saito (Mainz)	The HypHI Phase0 experiment at GSI
17:20 - 17:40	Jinhui Chen(Shanghai)	Anti-hypernucleus physics at RHIC

18:00 - 19:30 *Poster Session 1*

Sep. 15 (Tue)

Plenary 5 Spectroscopy of Hypernuclei (Chair: R. Schumacher)

- 9:00 - 9:30 O. Hashimoto (Tohoku) ($e,e'K^+$) spectroscopy at JLab Hall-C
9:30 - 10:00 F. Cusanno (Rome) ($e,e'K^+$) spectroscopy at JLab Hall-A
10:00 - 10:30 T. Harada (OsakaE&C) Neutron-rich Hypernuclei

10:30 - 11:00 Coffee Break

Plenary 6 Weak Decay of Hypernuclei (Chair: H. Bhang)

- 11:00 - 11:30 G. Garbarino (Torino) Weak decays of hypernuclei: Theory review
11:30 - 12:00 E. Botta (Torino) Recent results on mesonic and non-mesonic weak decays
12:00 - 12:20 H. Ota (RIKEN) Weak decay studies at KEK

12:20 - 12:40 P. Gianotti (Frascati) PANDA experiment at FAIR

12:40 - 14:00 Lunch

14:00 - 18:00 *Parallel Sessions*

18:00 - 19:30 *Poster Session 2*

Sep. 16 (Wed)

Plenary 7 Baryon-Baryon Interaction (Chair: Y. Yamamoto)

- 9:00 - 9:30 T.A. Rijken (Nijmegen) Status of our understanding on the YN interaction
9:30 - 10:00 J. Haidenbauer (Julich) Baryon-Baryon interactions in effective field theory
10:00 - 10:30 H. Nemura (Tohoku) Baryon-Baryon interactions in Lattice QCD

10:30 - 11:00 Coffee Break

Plenary 8 Baryon-Baryon Interaction and Strangeness in Hadron Structure (Chair: A. Ramos)

- 11:00 - 11:30 A. Parreno (Barcelona) YN interaction with Lattice QCD
11:30 - 12:00 K. Hashimoto (RIKEN) Nuclear force from String theory
12:00 - 12:30 B.S. Zou (Beijing) 5-quark components in baryons

12:30 - *Excursion*

Sep. 17 (Thu)

Plenary 9 $S=-2$ Systems (Chair: V.N. Fetisov)

- 9:00 - 9:30 K. Nakazawa (Gifu) Double- Λ hypernuclei in Hybrid-Emulsion experiments
9:30 - 10:00 E. Hiyama (RIKEN) Few body systems with $S=-1, -2$
10:00 - 10:30 T. Motoba (OsakaE&C) Structure and production of p-shell Ξ -hypernuclei
- 10:30 - 11:00 Coffee Break

Plenary 10 Elementary Strangeness Production (Chair: Yu-Gang Ma)

- 11:00 - 11:30 R. Schumacher (CMU) Hyperon Photo- and Electro- production experiments at CLAS
11:30 - 12:00 W.C. Chang (Taiwan) Photoproduction of Hyperon resonances at SPring-8
12:00 - 12:30 P. Bydzovsky (Rez) Strangeness Electromagnetic Production on Nucleons and Nuclei
- 12:30 - 14:00 Lunch

14:00 - 18:00 *Parallel Sessions*

19:00 - *Banquet*

Sep. 18 (Fri)

Plenary 11 Exotic Hadrons (Chair: T. Kishimoto)

- 9:00 - 9:30 T. Nakano (RCNP) Penta-quark
9:30 - 10:00 S. Olsen (Seoul) Exotic charmonium states
10:00 - 10:30 E. Oset (Valencia) Baryon resonances
- 10:30 - 11:00 Coffee Break

Plenary 12 Strangeness in Hadronic Matter (Chair: A. Gal)

- 11:00 - 11:30 J. Schaffner-Bielich(Frankfurt) Strangeness in compact stars
11:30 - 12:00 J. Mares (Rez) Kaon condensation and multi-strange matter
12:00 - 12:30 K. Sumiyoshi(Numazu) Emergence of hyperons in failed supernovae with short neutrino bursts
- 12:30 - 13:00 T. Bressani (Torino) Summary

Adjourn

Parallel Sessions

Sep. 15 (Tue)

Parallel Session 1-A (Chair: T. Fukuda)

14:00 - 14:15	Y. Fujiwara (Tokyo)	Confirmation of kaons in the J-PARC K1.8BR beamline
14:15 - 14:30	P. Achenbach (Mainz)	First measurements of Λ and Σ^0 hyperons in elementary electroproduction at MAMI
14:30 - 14:45	K. Hicks (Ohio)	K^* photoproduction from the proton at CLAS
14:45 - 15:00	H. Kanda (Tohoku)	Strangeness photoproduction experiments at SENDAI
15:00 - 15:15	S. Ozaki (RCNP)	ϕ -photoproduction in a coupled-channel approach
15:15 - 15:30	K. Moriya (CMU)	Properties of the $\Lambda(1405)$ Hyperon measured at CLAS

15:30 - 16:00 Coffee Break

16:00 - 16:15	R. Shyam (Saha)	Description of $\gamma p \rightarrow K^+ \Lambda$ and $\gamma p \rightarrow K^+ \Sigma^0$ reactions within a coupled-channels K-matrix approach
16:15 - 16:30	A.M. Torres (Valencia)	Exotic hadrons in the $N\pi K$ system and coupled channels
16:30 - 16:45	J.K. Ahn (Pusan)	The Nature of $\Lambda(1405)$ from Photoproduction at SPring-8/LEPS
16:45 - 17:00	L. Fabbietti (Munich)	Study of the $\Lambda(1405)$ resonance in proton induced reactions
17:00 - 17:15	K. Tsushima (JLab)	Photoproduction of Λ hypernuclei in the quark-meson coupling model
17:15 - 17:30	J.M. Camalich (Valencia)	Properties of hyperons in covariant chiral perturbation theory
17:30 - 17:45	P. Gubler (TIT)	$S=+1$ Pentaquarks in QCD Sum Rules
17:45 - 18:00	T.T. Takahashi (YITP)	Pseudoscalar-Meson Octet-Baryon Coupling Constants from two-flavor Lattice QCD

Parallel Session 1-B (Chair: T. Motoba)

14:00 - 14:15	Y. Yamamoto (Tsuru)	Hypernuclear properties derived from the new interaction model ESC08
14:15 - 14:30	D.E. Lansky (Moscow)	Reaction (K, K^+) and properties of double-strangeness hypernuclei
14:30 - 14:45	C. Samanta (Richmond)	Ξ -binding in a generalized mass formula and the quark-meson coupling model
14:45 - 15:00	M. Kohno (Kyushu DC)	Quark-model predictions for the ΞN interaction and the implications to Ξ hypernuclei
15:00 - 15:15	C.-J. Yoon (Seoul)	Extraction of $\Lambda\Lambda$ scattering length
15:15 - 15:30	T. Furumoto (RIKEN)	Hyperon-nucleus folding potentials in the complex G-matrix approach

15:30 - 16:00 Coffee Break

16:00 - 16:15	M. Kimura (Hokkaido)	Spin-dependence of ΞN interaction and Ξ hypernuclear production spectrum
16:15 - 16:30	J. Pochodzalla (Mainz)	Statistical Decay of Excited $\Lambda\Lambda$ Hypernuclei
16:30 - 16:45	T. Muto (Chiba)	Effects of $\Lambda(1405)$ on the Structure of Multi-Antikaonic Nuclei
16:45 - 17:00	A. Ohnishi (YITP)	EOS table of hyperonic matter for core-collapse supernovae
17:00 - 17:15	L. Tolos (Groningen)	Strange mesons from SIS to FAIR
17:15 - 17:30	C.H. Hyun (Daegu)	Electromagnetic properties of the baryon at high density and temperature
17:30 - 17:45	I. Vidana (Coimbra)	Effect of Λ hyperons on the neutron drip line
17:45 - 18:00		

18:00 - 19:30 *Poster Session 2*

Sep. 17 (Thu)

Parallel Session 2-A (Chair: J. Mares)

- 14:00 - 14:15 T. Kishimoto (Osaka) Kaon-Nucleus Potential and the in-flight (K^-,N) Reaction Mechanism
- 14:15 - 14:30 A. Ramos (Barcelona) The (K^-,p) reaction on nuclei with in-flight kaons
- 14:30 - 14:45 T. Bressani (Torino) Evidence of a narrow peak in the invariant mass distribution of Λp system observed in the $p\bar{p}$ annihilation at rest on ^4He
- 14:45 - 15:00 A. Dote (KEK) Kpp studied with Coupled-Channel Complex Scaling Method
- 15:00 - 15:15 N.V. Shevchenko (Rez) Two- and three-body resonances in the $K\bar{p}NN-\pi\Sigma N$ system
- 15:15 - 15:30 Y. Ikeda (Osaka) On the resonance energy of the $K\bar{p}NN-\pi YN$ system

15:30 - 16:00 Coffee Break

- 16:00 - 16:15 T. Koike (RIKEN) ^3He (in-flight K^-,n) spectrum and moving pole of a deeply-bound Kpp state in complex energy plane
- 16:15 - 16:30 T. Sekihara (Kyoto) $\Lambda(1405)$ -induced non-mesonic decay in kaonic nuclei
- 16:30 - 16:45 J. Esmaili (RIKEN) Experimental confirmation of the $\Lambda(1405)$ Ansatz from resonant formation of a Kp quasi-bound state in the K^- absorption by ^3He and ^4He
- 16:45 - 17:00 N. Grion (Trieste) Study of the $K^-_{\text{stop}}A \rightarrow \Sigma\pi A'$ reaction
- 17:00 - 17:15 S. Shinmura (Gifu) $K\bar{p}N$ and $\pi\Sigma$ Amplitudes in One-Hadron-Exchange Potential Model
- 17:15 - 17:30 T. Hyodo (TIT) Origin of resonances in chiral dynamics
- 17:30 - 17:45 S. Hirezaki (Nara) Formation of Slow Heavy Mesons in Nuclei
- 17:45 - 18:00 E. Widmann (Vienna) The AMADEUS experiment

Parallel Session 2-B (Chair: D.J. Millener)

- 14:00 - 14:15 G. Bonomi (Brescia) FINUDA hypernuclear spectroscopy
- 14:15 - 14:30 P. Finelli (Bologna) Spectroscopy of hypernuclei from in-medium chiral dynamics
- 14:30 - 14:45 Ma Yue (Tohoku) Updated results on the $^{11}\Lambda\text{B}$ and $^{12}\Lambda\text{C}$ γ -ray spectroscopy study
- 14:45 - 15:00 V.N. Fetisov (Lebedev) Shell model of light hypernuclei with ΛN and ΛNN forces derived from hypernuclear γ -line data
- 15:00 - 15:15 A. Umeya (RIKEN) Shell-model study on Sigma-mixing in neutron-rich Lithium Lambda hypernuclei
- 15:15 - 15:30 Y. Fujii (Tohoku) The second generation hypernuclear spectroscopy at JLab Hall C

15:30 - 16:00 Coffee Break

- 16:00 - 16:15 E. Bauer (La Plata) A Theoretical Determination of N_{nn}/N_{np} in Hypernuclear Non-Mesonic Weak Decay
- 16:15 - 16:30 L. Majling (Rez) Delayed clusters accompanying non-mesonic weak decay of the hypernuclei
- 16:30 - 16:45 Kim Mijung (Seoul) Coincidence measurement of the weak decay of $^{12}\Lambda\text{C}$ and the three-body weak decay process at J-PARC 50-GeV PS
- 16:45 - 17:00 H. Machner (Julich) Hyperon-Nucleon Interactions Studied in FSI
- 17:00 - 17:15 P. Genova (Pavia) Inclusive proton spectra from stopped K^- absorption in nuclei with FINUDA
- 17:15 - 17:30 A. Filippi (Torino) Study of two-body non-mesonic decays of light hypernuclei with FINUDA
- 17:30 - 17:45 San San Mon(Mandalay) Feshbach Resonance due to Coherent $\Lambda-\Sigma$ Coupling in $^7\Lambda\text{He}$
- 17:45 - 18:00 J. Lukstins (DUBNA) NIS-GIBS Spectrometer for hypernuclear research

19:00 - Banquet