

# **NSTAR 2015**

**Monday 25 May 2015 - Thursday 28 May 2015**

**Icho Kaikan, Suita Campus, Osaka University**

## **Programme**

# Table of contents

Monday 25 May 2015 .....	1
Tuesday 26 May 2015 .....	3
Wednesday 27 May 2015 .....	5
Thursday 28 May 2015 .....	7

# Monday 25 May 2015

## Registration (08:45-09:20)

### Plenary: 25-1 / Chair: Atsushi Hosaka - Main Hall (25 May 09:20-11:00)

time	title	presenter
09:20	Opening (00h10')	NAKANO, Takashi
09:30	N* Physics with Meson Photoproduction at CLAS (00h30')	IRELAND, David
10:00	Light-quark baryon spectroscopy from ANL-Osaka dynamical coupled-channels analysis (00h30')	KAMANO, Hiroyuki
10:30	Recent results from the CBELSA/TAPS experiment at ELSA (00h30')	THIEL, Annika

## coffee (11:00-11:30)

### Plenary: 25-2 / Chair : Ralf Gothe - Main Hall (25 May 11:30-13:00)

time	title	presenter
11:30	Exciting Baryons at MAMI (00h30')	OSTRICK, Michael
12:00	Properties of baryons from the Bonn-Gatchina partial wave analysis. (00h30')	SARANTSEV, Andrey
12:30	Baryon resonances in a combined analysis of pion- and photo-induced reactions - recent results from the Juelich PWA (00h30')	RÖNCHEN, Deborah

## lunch - (13:00-14:30)

### Parallel-A: 25-1 / Chair : Tetsuo Hyodo - Main Hall (25 May 14:30-16:00)

time	title	presenter
14:30	The DMT dynamical model for pion-nucleon scattering and pion electromagnetic production (00h30')	YANG, Shin Nan
15:00	Polarized Photon Beams for the BGO-OD Experiment at ELSA * (00h20')	ZIMMERMANN, Thomas
15:20	Strangeness photoproduction at the BGO-OD experiment (00h20')	JUDE, Thomas
15:40	Baryon resonances in strangeness production (00h20')	XIE, Ju-Jun

### Parallel-B: 25-1 / Chair : Hideko Nagahiro - Room 1 (25 May 14:30-15:40)

time	title	presenter
14:30	Dibaryons from WASA-at-COSY (00h30')	BASHKANOV, Mikhail
15:00	$d^*$ (2380) in a chiral quark model (00h20')	HUANG, Fei
15:20	Hyperon resonance $\Lambda(1405)$ and the K-pp three-body resonance (00h20')	DOTE, Akinobu

### Parallel-C: 25-1 / Chair : Vladimir Pascalutsa - Room 2 (25 May 14:30-16:00)

time	title	presenter
14:30	Stability of the pion beyond the chiral limit (00h30')	KIM, Hyun-Chul

15:00	Deeply virtual Compton scattering from the neutron: measurements with CLAS and CLAS12 at Jefferson Lab (00h20')	SOKHAN, Daria
15:20	$K \rightarrow \pi$ transition generalized from factors and transverse quark spin density from the instanton vacuum (00h20')	SON, Hyeon-Dong
15:40	Nucleon structure functions at small $x$ via holographic Pomeron exchange (00h20')	WATANABE, Akira

**coffee (16:00-16:30)**

**Parallel-A: 25-2 / Chair : Hajime Shimizu - Main Hall (25 May 16:30-17:30)**

time	title	presenter
16:30	Measurements of spin observables in single pion photo-production from polarized neutrons in solid HD (00h20')	KAGEYA, Tsuneo
16:50	Polarization observables for double charged pion and vector meson photoproduction from polarized HD target at CLAS (00h20')	ZONTA, Irene
17:10	Measurement of the beam asymmetry in pion- and eta-photoproduction (00h20')	AFZAL, Farah Noreen

**Parallel-B: 25-2 / Chair : Michael Döring - Room 1 (25 May 16:30-17:20)**

time	title	presenter
16:30	Electromagnetic form factors of the octet baryons from lattice QCD (00h30')	SHANAHAN, Phiala
17:00	Proton pair production cross sections at BESIII (00h20')	ZHOU, Xiaorong

**Welcome party - Restaurant MINERVA (17:50-19:30)**

## Tuesday 26 May 2015

### **Plenary: 26-1 / Chair : Makoto Oka (26 May 09:30-11:00)**

time	title	presenter
09:30	Pion photo- and electroproduction and the chiral MAID interface (00h30')	SCHERER, Stefan
10:00	Nucleon Electroexcitation and Baryon Structure with CLAS (00h30')	GOTHE, Ralf
10:30	Photoproduction for $N^*$ and related topics at LEPS/LEPS2 (00h30')	HIDEKI, Kohri

### **coffee (11:00-11:30)**

### **Plenary: 26-2 / Chair : Bingsong Zou (26 May 11:30-13:00)**

time	title	presenter
11:30	Hadron physics from BESIII (00h30')	MARCELLO, Simonetta
12:00	Overview of the latest QM results on the Nstar (00h30')	SANTOPINTO, Elena
12:30	$N^*$ Spectroscopy from Lattice QCD (00h30')	LEINWEBER, Derek

### **lunch - (13:00-14:30)**

### **Parallel-A: 26-1 / Chair : Hideki Kohri (26 May 14:30-16:00)**

time	title	presenter
14:30	Electromagnetic Production of Kaon with Spins 3/2 and 5/2 Nucleon Resonances (00h30')	MART, Terry
15:00	Near threshold $K^0 \Lambda$ photoproduction on the neutron studied with an electromagnetic calorimeter FOREST (00h20')	TSUCHIKAWA, Yusuke
15:20	Strangeness photoproduction on quasifree neutrons (00h20')	WERTHMUELLER, Dominik
15:40	Hunting the resonances in $p(\gamma, K^+) \Lambda$ : (over)complete measurements and partial-wave analyses (00h20')	NYS, Jannes RYCKEBUSCH, Jan

### **Parallel-B: 26-1 / Chair : Tomoaki Hotta (26 May 14:30-16:00)**

time	title	presenter
14:30	Meson photoproduction experiments at ELPH, Tohoku University (00h30')	ISHIKAWA, Takatsugu
15:00	Spectroscopy of pionic atoms in the $(p, ^2\text{He})$ reaction at RCNP (00h20')	FUJIOKA, Hiroyuki
15:20	Chiral dynamics in the $\gamma p \rightarrow p \pi^0$ reaction (00h20')	HILLER BLIN, Astrid
15:40	The performance study of an electro-magnetic calorimeter for the LEPS2/BGOegg experiment (00h20')	MATSUMURA, Yuji

### **Parallel-C: 26-1 / Chair : Shin Nan Yang (26 May 14:30-16:00)**

time	title	presenter
14:30	Compositeness of hadrons and near-threshold dynamics (00h30')	HYODO, Tetsuo
15:00	Compositeness of the $\Delta(1232)$ resonance in $\pi N$ scatterings (00h20')	SEKIHARA, Takayasu

15:20	Mixing of pseudoscalar-baryon and vector-baryon in the $J^P=1/2^-$ sector and the $N^*(1535)$ and $N^*(1650)$ resonances (00h20')	GARZON, E.J.
15:40	Structure of $\Lambda(1405)$ and construction of antikaon-nucleon potential based on chiral unitary approach (00h20')	MIYAHARA, Kenta

**coffee (16:00-16:30)****Parallel-A: 26-2 / Chair : Hiroyuki Kamano (26 May 16:30-17:50)**

time	title	presenter
16:30	Bonn-Gatchina partial wave analysis of two meson photoproduction reactions (00h20')	NIKONOV, Victor
16:50	Double Polarization Observable $E_{\eta}$ in $\eta$ , $\pi^0$ and $2\pi^0$ Photoproduction off Protons and Neutrons (00h20')	DIETERLE, Manuel
17:10	Measurement of polarization observables in neutral double pion photoproduction off the proton with the CBELSA/TAPS experiment (00h20')	MAHLBERG, Philipp
17:30	Photoproduction of the scalar mesons $f_0(980)$ and $f_0(500)$ off the nucleon (00h20')	LEE, Jehee

**Parallel-B: 26-2 / Chair : Derek Leinweber (26 May 16:30-18:00)**

time	title	presenter
16:30	Nucleon excited states from lattice QCD with overlap fermions (00h30')	CHEN, Ying
17:00	Strange and nonstrange baryon spectra in the interacting quark-diquark model (00h20')	SANTOPINTO, Elena FERRETTI, Jacopo
17:20	Unquenched Quark Model (00h20')	GARCIA-TECOCOATZI, Hugo
17:40	The nucleon resonance around 2 GeV (00h20')	HE, Jun

## Wednesday 27 May 2015

### **Plenary: 27-1 / Chair : Elena Santopinto (27 May 09:30-11:00)**

time	title	presenter
09:30	Exposing running masses via studies of nucleon resonances (00h30')	ROBERTS, Craig
10:00	Nucleon Form Factors and Polarizabilities at Low Q (00h30')	PASCALUTSA, Vladimir
10:30	Neutrinoproduction of Pions (00h30')	MCFARLAND, Kevin

### **coffee (11:00-11:30)**

### **Plenary: 27-2 / Chair : Craig Roberts (27 May 11:30-13:00)**

time	title	presenter
11:30	Resonance production and decay in proton and pion induced collisions with HADES (00h30')	PRZYGODA, Witold
12:00	Hadron spectroscopy and interactions from lattice QCD (00h30')	EDWARDS, Robert
12:30	Hadron interactions from phase shift analysis in lattice QCD (00h30')	ISHIZUKA, Naruhito

### **lunch - (13:00-14:30)**

### **Parallel-A: 27-1 / Chair : Kiyoshi Tanida (27 May 14:30-15:40)**

time	title	presenter
14:30	Neutrino-induced meson productions (00h30')	NAKAMURA, Satoshi
15:00	Incoherent Pion Production in Neutrino-Deuteron Reactions (00h20')	SATO, toru
15:20	High statistic analysis of nucleon form factor in lattice QCD (00h20')	SHINTANI, Eigo

### **Parallel-B: 27-1 / Chair : Noriyoshi Ishii (27 May 14:30-15:50)**

time	title	presenter
14:30	Coupled channel hadronic interactions from Lattice QCD (00h30')	SASAKI, Kenji
15:00	Extraction of hadron resonances from finite volume (00h30')	DORING, Michael
15:30	Finite-volume Hamiltonian method for $\pi\pi$ scattering in lattice QCD (00h20')	WU, Jiajun

### **Parallel-C: 27-1 / Chair : Hyun-Chul Kim (27 May 14:30-15:50)**

time	title	presenter
14:30	Modification of nucleon spectral function in the nuclear matter from QCD sum rule (00h20')	OHTANI, Keisuke
14:50	Effects of the scalar mesons in a skyrme model with hidden local symmetry (00h20')	HE, BingRan
15:10	Parity doublet model with the $U(3)_L \times U(3)_R$ chiral symmetry (00h20')	NISHIHARA, Hiroki
15:30	Fock States in AdS / QCD models to describe Nucleons (00h20')	VEGA, Alfredo

**coffee (16:00-16:30)****Parallel-A: 27-2 / Chair : Toru Sato (27 May 16:30-18:00)**

time	title	presenter
16:30	Physics with HypTPC at J-PARC (00h30')	HOSOMI, Kenji
17:00	Combined analysis of $\pi N \rightarrow \pi N$ and $\pi N \rightarrow \pi \pi N$ in ChPT (00h20')	SIEMENS, Dmitrij
17:20	Baryonic spectroscopies at BESIII (00h20')	LIU, Fang
17:40	Pentaquark $\Theta^+$ search at HERMES (00h20')	WANG, Siguang

**Parallel-B: 27-2 / Chair : Ying Chen (27 May 16:30-18:00)**

time	title	presenter
16:30	On the structure of $Z_c(3900)$ from lattice QCD (00h30')	IKEDA, Yoichi
17:00	Transitions of charm/bottom baryons with pion emissions (00h20')	YASUI, Shigehiro
17:20	Baryon states with hidden charm in the extended local hidden gauge approach (00h20')	UCHINO, Toshitaka
17:40	Photon and pion induced reactions for the study of nucleon resonances (00h20')	KIM, Sangho

**Banquet - Restaurant MINERVA (18:15-20:15)**



## Thursday 28 May 2015

### **Plenary: 28-1 / Chair : David Ireland (28 May 09:30-11:00)**

time	title	presenter
09:30	Baryon spectroscopy at B-factories (00h30')	NIIYAMA, Masayuki
10:00	Penta-quark states with strangeness, hidden charm and beauty (00h30')	ZOU, Bing-Song
10:30	The nature of near--threshold XYZ states (00h30')	WANG, Qian

### **coffee (11:00-11:30)**

### **Plenary: 28-2 / Chair : Hiroyuki Noumi (28 May 11:30-12:50)**

time	title	presenter
11:30	Excited Hyperons at Jefferson Lab (00h30')	GUO, Lei
12:00	Overview of hadron physics at J-PARC (00h30')	TANIDA, Kiyoshi
12:30	Closing (00h20')	