

# **The 7th Asia-Pacific Conference on Few-Body Problems in Physics (APFB 2017)**

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**Invited plenary talk / 60**

## **Conference Open Address**

**Invited plenary talk / 61**

## **Study of exotic hadrons at Belle and Belle-II**

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**Invited plenary talk / 62**

## **LHCb experiment on hadron spectroscopy**

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**Invited plenary talk / 63**

## **Deep inelastic nucleon structure from lattice QCD**

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**Invited plenary talk / 64**

## **LQCD study of exotic hadrons**

作者: Ying CHEN<sup>1</sup>

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**Invited plenary talk / 65**

## **Study long-distance processes using LQCD: from flavor physics to nuclear physics**

作者: Xu Feng<sup>1</sup>

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**Invited Parallel talk / 66**

## **Universal scaling of scattering observables for mass-imbalanced three-body systems**

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**Invited Parallel talk / 67**

## **Short-range repulsive three-nucleon force and three-nucleon observables**

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**Invited Parallel talk / 68**

## **Deuteron Analyzing Powers for dp Elastic Scattering at Intermediate Energies and Three-Nucleon Forces**

作者: Kimiko Sekiguchi<sup>1</sup>

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**Invited Parallel talk / 75**

## **Color magnetic interaction and multiquark states**

作者: Yan-Rui Liu<sup>1</sup>

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Invited Parallel talk / 76

## Exotic doubly charmed baryons from chiral effective field theory

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Invited Parallel talk / 77

## Remarks on the hidden color components of multi-quark systems

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Invited plenary talk / 84

## Lattice nuclear physics

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Invited plenary talk / 85

## Recent progress in few-body physics and structure of hypernuclei

作者: Emiko Hiyama<sup>1</sup>

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Invited plenary talk / 86

## **N-d 3-body scattering and NN interactions**

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**Invited plenary talk / 87**

## **Measurement of the hypertriton lifetime**

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**Invited plenary talk / 88**

## **Production of hypernuclei at JLab**

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**Invited plenary talk / 89**

## **Understanding the lifetime puzzle of hypertriton**

作者: Jean-Marc Richard<sup>1</sup>

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**Invited plenary talk / 94**

## **Recent progress in covariant baryon chiral perturbation theory**

作者: Lisheng Geng<sup>1</sup>

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Invited plenary talk / 95

## Hidden-charm pentaquark states in QCD sum rules

作者: Hua-Xing Chen<sup>1</sup>

<sup>1</sup> *Beihang University*

Invited plenary talk / 96

## Efimov Physics in Ultracold Atomic Gases

Invited Parallel talk / 97

## Relativistic Faddeev calculations for elastic Nd scattering with Kharkov potential

作者: Hiroyuki Kamada<sup>1</sup>

<sup>1</sup> *Kyushu Institute of Technology*

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Invited Parallel talk / 98

## Phase-equivalently transformed nucleon-nucleon forces in nucleon-deuteron elastic scattering

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Invited Parallel talk / 99

## Few nucleon correlation investigation using polarized and unpolarized beam at Nuclotron

作者: Marian Janek<sup>1</sup>

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Invited Parallel talk / 100

## Elastic alpha-carbon-12 scattering at low energies in effective field theory

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<sup>1</sup> *Sunmoon University*

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## Six-body calculation for electric-dipole response of ${}^6\text{Li}$

作者: Shuji Satsuka<sup>1</sup>

<sup>1</sup> *Hokkaido University*

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Invited Parallel talk / 106

## Quasi-bound state in the $\bar{K}NNN$ system

作者: Nina Shevchenko<sup>1</sup>

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Invited Parallel talk / 107

## Search an $I(JP)=1(1/2^-)$ , $S=-1$ state around $KN$ threshold in $Xc0(1P) \rightarrow \Sigma\Sigma\pi$

作者: En Wang<sup>1</sup>

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Invited Parallel talk / 108

## Study of the radiative decays of $h_c$ via intermediate meson loop transitions

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<sup>1</sup> *Qufu Normal University*

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Invited Parallel talk / 109

## Large- $N_c$ expansion analysis on parity and time-reversal violations in Nucleon-Nucleon potential

作者: Daris Samart<sup>1</sup>

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Invited Parallel talk / 119

## Baryon form factors in perturbative chiral quark model

作者: Yupeng Yan<sup>1</sup>

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Invited Parallel talk / 120

## Measurement of the Vector and Tensor Asymmetries at Large Missing Momentum in Quasielastic ( $\vec{e}$ , $e'p$ ) Electron Scattering from Deuterium

作者: Ricardo Alarcon<sup>1</sup>

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Invited Parallel talk / 121

## Scale Invariant Molecules

作者: Pavon Valderrama<sup>1</sup>

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Invited plenary talk / 132

## overview on the physics program of PANDA

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Invited plenary talk / 133

## Study of the light hadrons in strangeness production

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Invited plenary talk / 134

## A few certainties and many uncertainties about multiquarks

作者: Jung Keun Ahn<sup>1</sup>

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Invited plenary talk / 137

## Review of heavy meson spectroscopy

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Invited plenary talk / 138

## Possible existence of charmed exotics

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**Invited plenary talk / 139**

## **Hadron production and decay**

作者: Eulogio Oset<sup>1</sup>

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**Invited Parallel talk / 140**

## **Possibility of the Efimov-like structure in the hadron system**

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**Invited Parallel talk / 141**

## **The off-shell Coulomb-like amplitude in momentum space**

作者: Takashi Watanabe<sup>1</sup>

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**Invited Parallel talk / 142**

## **Precise few-body calculations for kaonic nuclear and atomic systems**

作者: Wataru Horiuchi<sup>1</sup>

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**Invited plenary talk / 144**

## **Charmed baryons in nuclear matter**

作者: Makoto Oka<sup>1</sup>

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**Invited plenary talk / 145**

## **Closing remark**

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**Invited plenary talk / 146**

## **Review of BESIII experiment on hadron physics**

作者: Ryan Mitchell<sup>1</sup>

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**Invited plenary talk / 150**

## **Search for $\Lambda\Lambda$ and $\Xi^-p$ exotic dibaryon states in the $^{12}\text{C}(K^-, K^+)\text{X}$ reaction**

**Oral contribution / 151**

## **Numerical treatment of the orthogonality condition model in few-body systems**

作者: Makoto Ito<sup>1</sup>

<sup>1</sup> *Kansai University*

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**Oral contribution / 152**

## **Hidden-charm meson-baryon molecules with a short-range attraction from five quark states**



作者: Yasuhiro Yamaguchi<sup>1</sup>

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Oral contribution / 153

## Hyperon-nucleus potentials obtained via fixed-angular momentum inversion

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Oral contribution / 154

## Tensor-optimized antisymmetrized molecular dynamics for light nuclei with bare nuclear interactions

作者: Takayuki Myo<sup>1</sup>

<sup>1</sup> *Osaka Institute of Technology*

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Oral contribution / 155

## $B \rightarrow \pi \ell^+ \ell^-$ and $B \rightarrow (*) \ell^+ \ell^-$ decays at low- $q^2$ in dispersion theory

作者: Sergi González-Solís<sup>1</sup>

<sup>1</sup> *IFAE-UAB*

Oral contribution / 156

## Hadronic Paschen-Back Effect in Charmonium

作者: Sachio iwasaki<sup>1</sup>

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Oral contribution / 157

## **Impact of density dependent of the weak and electromagnetic nucleon form factors on neutrino mean free path in dense matter**

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Oral contribution / 158

## **The measurements of branching fractions for $\eta_c \rightarrow \phi \phi$ and $\omega \phi$ at BESIII**

作者: Guang-Rui Liao<sup>1</sup>

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Oral contribution / 159

## **Spectroscopy of the Fully-heavy Tetraquark**

作者: Muhammad Naeem Anwar<sup>1</sup>

<sup>1</sup> *Institute of Theoretical Physics, Chinese Academy of Sciences*

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Oral contribution / 160

## **Mass spectra of excited baryons in a mean-field approach**

作者: Yusun Jun<sup>1</sup>

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Oral contribution / 161

## **Hadronic decay properties of newly observed $\Omega_c$ baryons**

作者: Ze Zhao<sup>1</sup>

<sup>1</sup> *Shanghai University*

Oral contribution / 162

## **Masses of singly and doubly heavy baryons within the SU(3) chiral quark-soliton model**

作者: Jun-Young Kim<sup>1</sup>

<sup>1</sup> *Inha University*

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Oral contribution / 163

## **Nucleon-nucleon interaction in covariant chiral effective field theory**

作者: Xiulei Ren<sup>1</sup>

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Oral contribution / 164

## **Proton-Neutron Correlation in the Three-Body Treatment of the Cluster-Orbital Shell Model**

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Oral contribution / 165

## **Nuclear multipole responses with the time-dependent correlated Gaussian method**

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Oral contribution / 166

## **3N bound state in momentum-helicity basis without using partial wave decomposition**

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Oral contribution / 167

## Six-body calculation for electric-dipole response of ${}^6\text{Li}$

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Oral contribution / 168

## Exotic Baryon Systems from Photoproduction and Beam Commissioning of the LEPS2 Solenoid Spectrometer

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Oral contribution / 170

## $\bar{K}N$ - $\pi\Sigma$ coupled-channels potential derived from Chiral $\text{SU}(3)$ dynamics

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Oral contribution / 171

## Photoproduction of $K^+\Lambda$

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Oral contribution / 172

## **Production and decay angular distribution of $K^*$ and $D^*$ mesons in pion-nucleon scattering**

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Oral contribution / 173

## **Nuclear radius of $^{22}\text{C}$ with total reaction cross sections**

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Oral contribution / 174

## **Viscous corrections to the heavy quark potential in QCD at high temperatures**

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Oral contribution / 175

## **Moments of protons and deuterons in Au+Au collisions at $E_{lab}=1.23$ GeV**

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Oral contribution / 177

## **Testing the supersymmetric transformed potential with nuclear multipole responses**

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Oral contribution / 178

## Study of the $DKK$ and $DK\bar{K}$ systems

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Oral contribution / 179

## The role of triangle singularity in light meson spectroscopy

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Oral contribution / 180

## Heavy-quark symmetry and large- $N_c$ operator analysis of chiral Lagrangian with D-mesons, charmed and light baryons

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Oral contribution / 181

## Octet baryon magnetic moments in Chiral Perturbation Theory at NNLO

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Oral contribution / 182

## Study of the $BDD$ and $B\bar{D}$ systems

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Oral contribution / 183

## Absence of the Zc(3900) in B decays

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