

# **The 71st Fujihara Seminar - Shimoda 2016**

**Wednesday, 6 July 2016 - Friday, 8 July 2016**

**Shimoda Tokyu Hotel**

## **Scientific Programme**

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*International Symposium on*

*Interplay between Hadronic, Nuclear and Atomic Physics*

**5/July (Tue)**

Welcome

18:00-

Welcome party at the conference venue

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**6/July (Wed)**

Opening session

9:00-

**R. S. Hayano (Univ. Tokyo)**

The 71st Fujihara seminar

9:05-

**The Fujihara Foundation of Science**

Greetings and video message

9:20-

**M. Kobayashi (KEK)**

Opening address

Session 1: Keynote (*chair: R.S. Hayano*)

9:50-

**T. Ericson (CERN)**

Mesons in nuclei

10:20-10:50

Coffee Break

Session 2: Super Heavy Elements (1) (*chair: K. Imai*)

10:50-

**H. Sakurai (RIKEN)**

Nuclear magic numbers

11:20-

**Y. Nagame (JAEA)**

Chemistry of superheavy elements

11:50-

**Y. Yano (RIKEN)**

New method of superheavy spectroscopy

12:20-12:30

Conference photo

12:30-14:00

Lunch

Session 3: Exotic atoms (1) (*chair: D. Horvath*)

14:00-

**R. Pohl (MPQ)**

Nuclear structure from laser spectroscopy of muonic atoms

14:30-

**M. Hori & A. Soter (MPQ)**

Exciting antiprotonic and pionic helium with lasers

15:00-

**V. Korobov (JINR)**

Bound-state QED calculations for light atoms and molecules

15:30-16:00

Coffee break

Session 4: Exotic atoms (2) (*chair: S.N. Nakamura*)

16:00-

**M. Fujiwara (TRIUMF)**

Casting Light on Antihydrogen

16:30-

**E. Widmann (SMI)**

Antihydrogen -future dreams

18:30-

Dinner

**7/July (Thu)**

Session 5: High temperature nuclear matter (*chair: N. Herrmann*)

9:00-

**S. Nagamiya (RIKEN)**

Future HI Physics

9:30-

**Y. Akiba (RIKEN)**

Study of Quark Gluon Plasma at RHIC

10:00-

**P. Braun-Munzinger (GSI)**

How far can we push the thermal model?

10:30-

**K. Shigaki (Hiroshima Univ.)**

Dreams in the LHC heavy ion programme

11:00-11:30

Coffee Break

Session 6: Superheavy elements (2) (*chair: K. Nakai*)

11:30-

**K. Morita (Kyushu Univ./RIKEN)**

Z=113 and beyond

12:00-13:40

Lunch

Session 7: Kaonic matter (*chair: H. Tamura*)

13:40-

**N. Herrmann (GSI)**

Perspectives of measuring deeply bound states at FAIR

14:00-

**T. Nagae (Kyoto Univ.)**

Evidences for kaonic nuclei

14:30-

**Y. Akaishi (RIKEN/KEK)**

Current theoretical topics on  $K^{\pm}pp$  toward quasi-stable  $\Lambda^*$  multiplets

15:00-

**T. Yamazaki (Univ. Tokyo)**

Kaonic proton matter, a dark-matter candidate?

15:30-16:00

Coffee break

Session 8: QCD Frontier (*chair: T. Kunihiro*)

16:00-

**S. Brodsky (SLAC)**

Light-Front Holography and the Surprising Supersymmetric Features of Hadron Physics

16:30-

**A. Thomas (Univ. Adelaide)**

QCD nuclear physics

17:00-

**T. Hatsuda (RIKEN)**

Nuclear force from first principles

19:00-

Conference dinner

**8/July (Fri)**

Session 9: Pions and muons (1) (*chair: M. Soyeur*)

9:00-

**H. Toki (Osaka Univ.)**

The role of pions in nuclear physics

9:30-

**K. Itahashi (RIKEN)**

Meson-nuclear bound states

10:00-

**M. Rho (CEA Saclay)**

Signals for hidden symmetries in nuclear interactions

10:30-11:00

Coffee Break

Session 10: GSI puzzle (*chair: K. Yazaki*)

11:00-

**Y. Litvinov (GSI)**

The "GSI oscillation" puzzle

11:30-

**T. Yamaguchi (Saitama Univ.)**



RI beam experiments with storage rings - present and future

Session 11: Pions and muons (2) (*chair: M. Iwasaki*)

12:00-

**Y. Kuno (Osaka Univ.)**

Lepton number violation studies using muons

12:30-

**Y. J. Uemura (Columbia Univ.)**

Using muons to probe superconductivity

13:00-

Lunch

14:30-

Adjourn