

FPUA 2024

Thursday, 14 March 2024

Oral: Session 1 - Lecture Hall (09:10 - 10:35)

-Conveners: Takahiko Masuda

time	[id] title	presenter
09:10	[4] Advancing EDM searches with ultracold radioactive molecules at FRIB	WU, Xing
09:40	[5] New methods for quantum control of polar molecules for symmetry-violation searches	ZHANG, Chi
10:10	[6] Current status of laser and optical system for EDM search using cold francium atoms at RIKEN/CNS	NAKAMURA, Keisuke

Oral: Session 2 - Lecture Hall (11:00 - 12:30)

-Conveners: Akira Ishida

time	[id] title	presenter
11:00	[8] Three-particles Aharonov-Bohm effect	SHIKANO, Yutaka
11:30	[9] Control of equilibrium and non-equilibrium Casimir forces	IIZUKA, Hideo
12:00	[10] Towards quantum gravity: Test of Gravitational Inverse Square Law and Lorentz Invariance	MURATA, Jiro

Oral: Session 3 - Lecture Hall (14:30 - 15:50)

-Conveners: Kazuhiko Sugiyama

time	[id] title	presenter
14:30	[11] Nuclear and particle physics with cold ytterbium and Rydberg atoms	KAWASAKI, Akio
15:00	[12] Production-decay dynamics of Th-229 nuclear clock isomeric state in crystal	GUAN, Ming
15:25	[7] Progress of a Neutron Electric Dipole Search by the TUCAN Collaboration	KAWASAKI, Shinsuke

Oral: Session 4 - Lecture Hall (16:10 - 17:45)

-Conveners: Hirohiko Shimizu

time	[id] title	presenter
16:10	[13] Light Dark Matter Search with Nitrogen-Vacancy Centers in Diamonds	NAKAYAMA, Kazunori
16:40	[15] Directional Detection of Cosmic Ray Boosted Dark Matter	NAGAO, Keiko
17:05	[14] Quantum entanglement of ions for light dark matter detection	ITO, Asuka
17:25	[16] Research and development towards an axion search experiment using quantum sensing of magnons	SINGH SHRESTHA, Yaman

Friday, 15 March 2024

Oral: Sesseion 5 - Lecture Hall (09:00 - 10:00)

-Conveners: Noboru Sasao

time	[id] title	presenter
09:00	[3] Study of Gravitational Wave by LIGO : past, present and future	YAMAMOTO, Hiroaki

Oral: Session 6 - Lecture Hall (10:25 - 11:30)

-Conveners: Yasuhiro Sakemi

time	[id] title	presenter
10:25	[17] Fundamental Physics Using (Anti)hydrogen Atoms: ALPHA at CERN and HAICU at TRIUMF	FUJIWARA, Makoto
11:05	[18] Magnetic field studies using electron plasmas for gravitational experiments with antihydrogen	POWELL, Adam

Oral: Session 7 - Lecture Hall (13:00 - 14:20)

-Conveners: Koichiro Shimomura

time	[id] title	presenter
13:00	[19] Fundamental physics using exotic atoms at J-PARC	OKADA, Shinji
13:30	[20] Muon Penning Trap Experiment at J-PARC	NISHIMURA, Shoichiro
13:55	[21] Mu-antiMu conversion search in J-PARC	KAWAMURA, Naritoshi

Oral: Session 8 - Lecture Hall (14:45 - 16:00)

-Conveners: Minoru Tanaka

time	[id] title	presenter
14:45	[24] Space time evolution of the lepton number densities including the momentum distribution	MOROZUMI, Takuya
15:10	[23] Coherence amplification using atoms (ions) for fundamental physics	YOSHIMI, Akihiro
15:35	[22] Disentangle neutrino electromagnetic properties with atomic radiative pair emission	GE, Shao-Feng